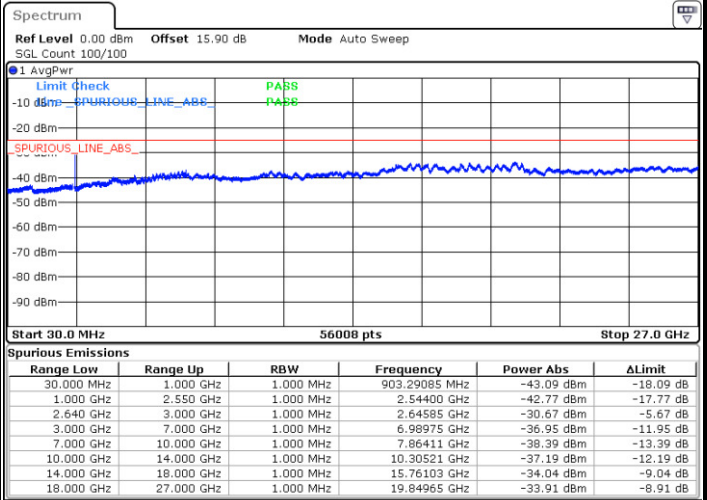
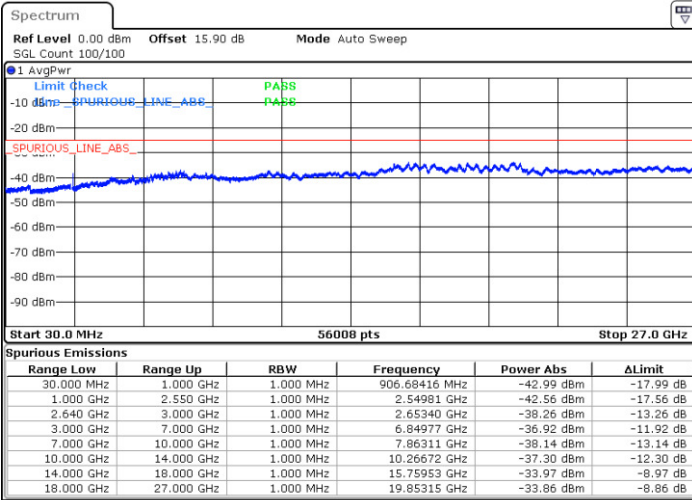




LTE Band 38 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



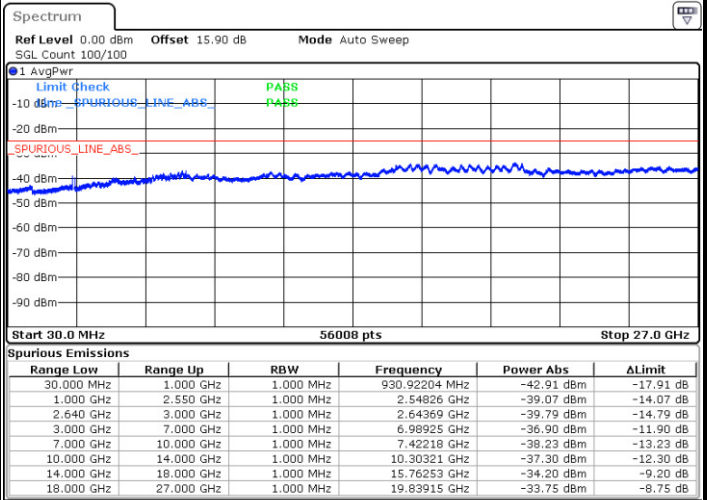
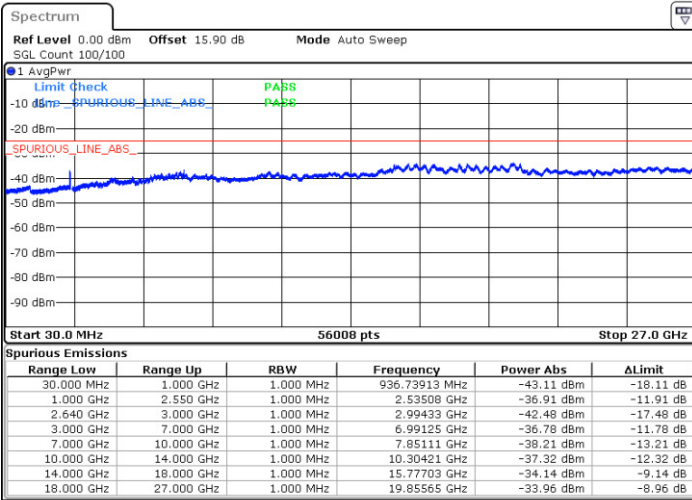
Date: 7. JAN 2018 11:26:02

Date: 7. JAN 2018 11:26:57

LTE Band 38 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 7. JAN 2018 11:27:51

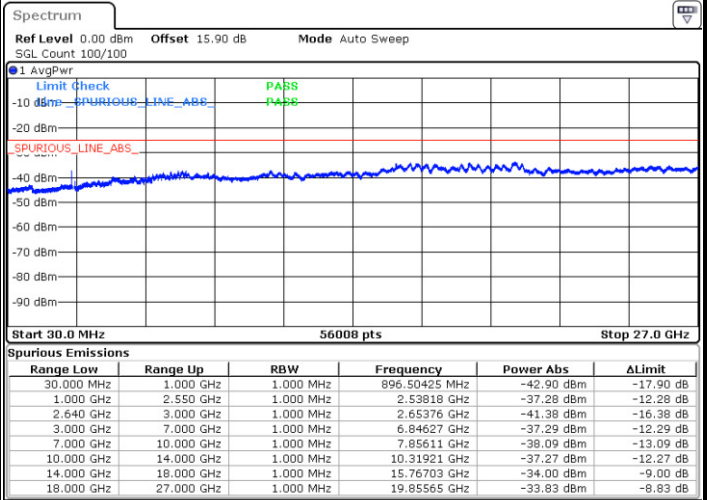
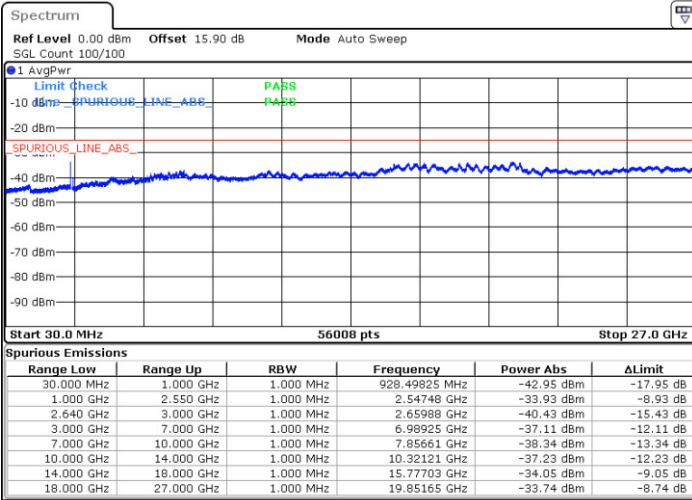
Date: 7. JAN 2018 11:28:45



LTE Band 38 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

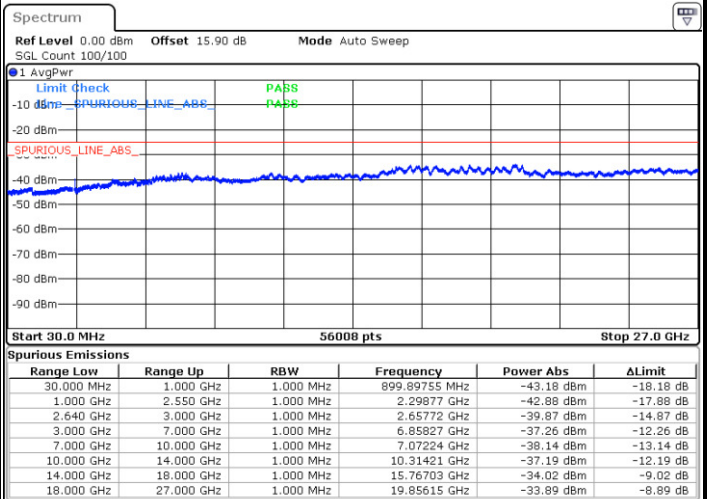
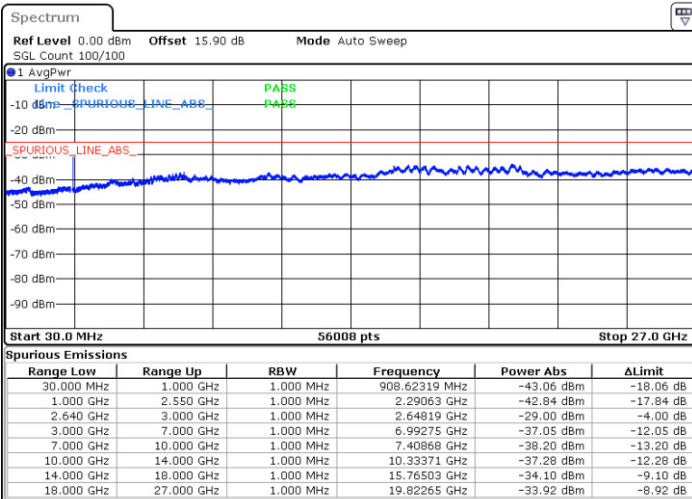


Date: 7. JAN 2018 11:29:39

Date: 7. JAN 2018 11:30:33

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 7. JAN 2018 11:31:27

Date: 7. JAN 2018 11:32:21



**Frequency Stability**

Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0009	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0000	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0007	
20	Battery End Point	0.0002	

**Note:**

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 41

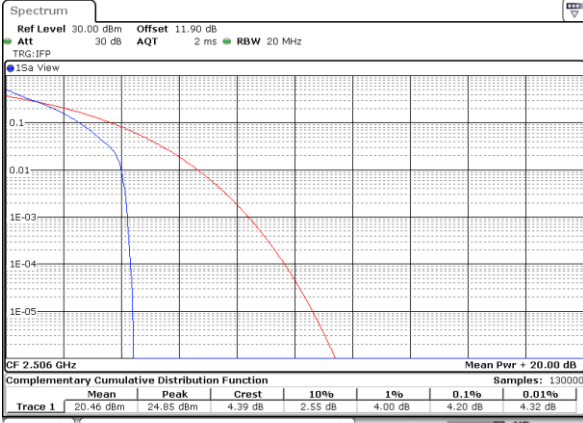
### Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.2	4.96	5.42	6	<b>PASS</b>
Middle CH	4.84	5.25	6	6.32	
Highest CH	4.46	5.04	5.57	6.09	



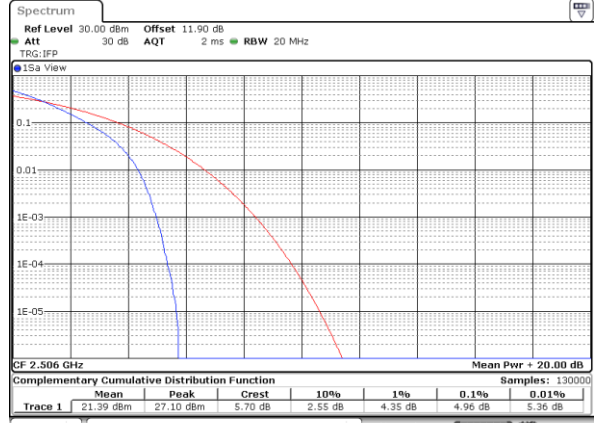
LTE Band 41 / 20MHz / QPSK

Lowest Channel / 1RB



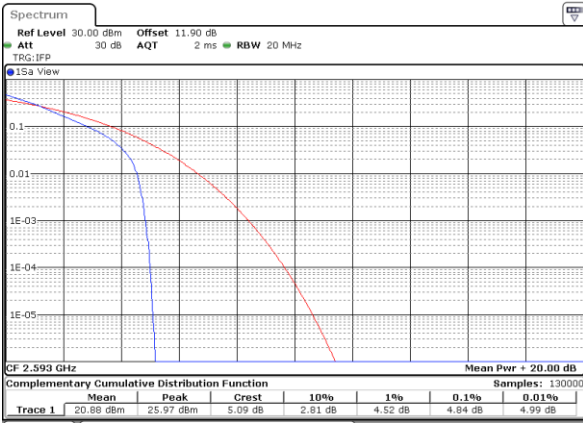
Date: 7 JAN 2018 15:34:24

Lowest Channel / Full RB



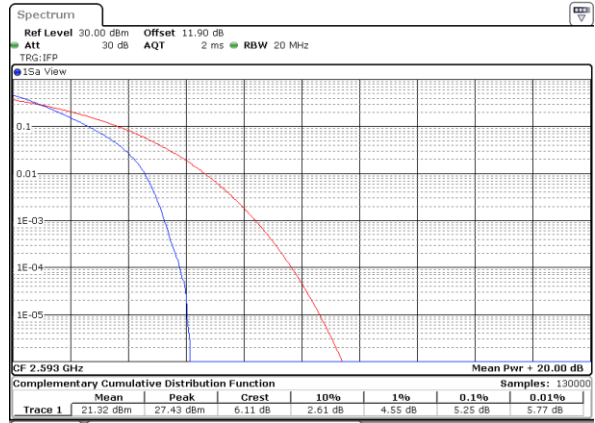
Date: 7 JAN 2018 15:34:38

Middle Channel / 1RB



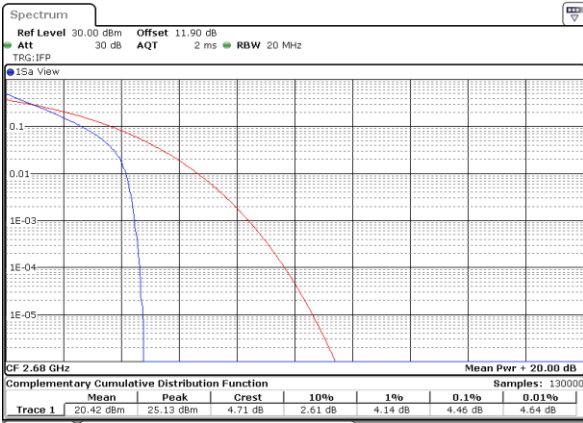
Date: 7 JAN 2018 15:34:52

Middle Channel / Full RB



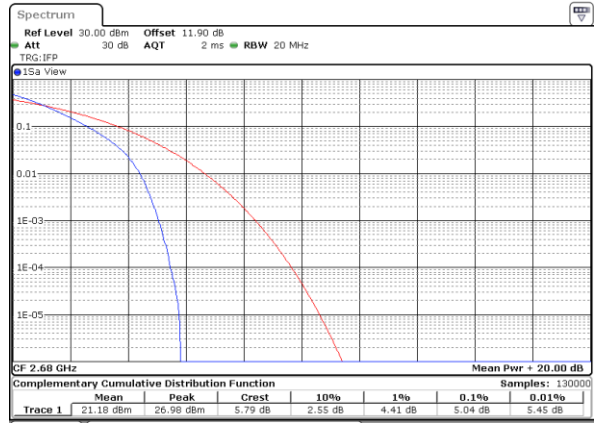
Date: 7 JAN 2018 15:36:41

Highest Channel / 1RB



Date: 7 JAN 2018 15:37:13

Highest Channel / Full RB

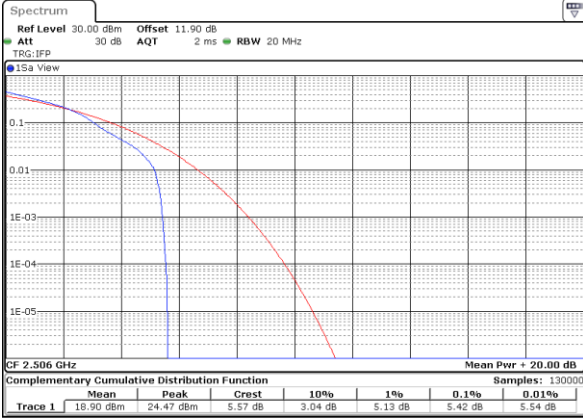


Date: 7 JAN 2018 15:37:35



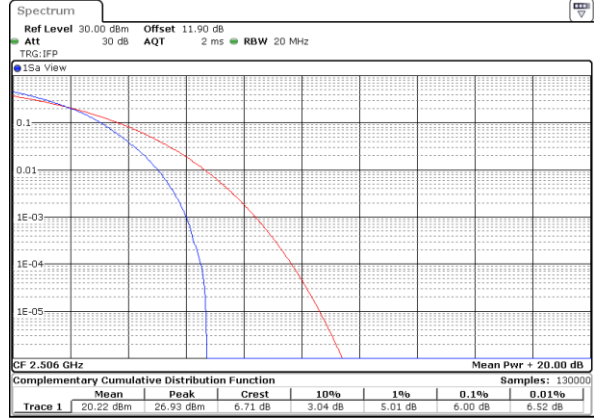
LTE Band 41 / 20MHz / 16QAM

Lowest Channel / 1RB



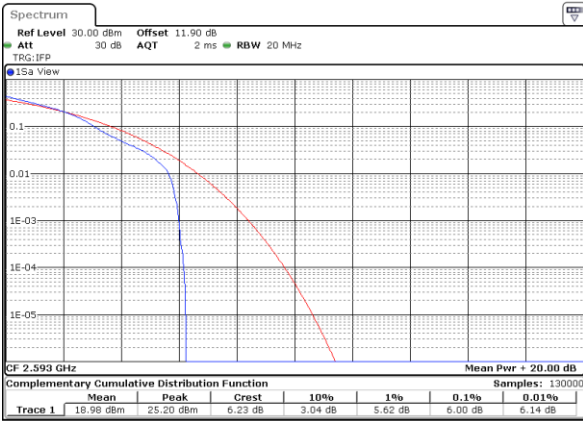
Date: 7 JAN 2018 15:32:55

Lowest Channel / Full RB



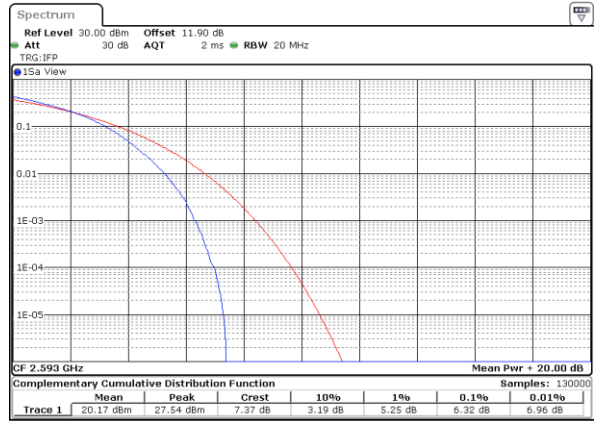
Date: 7 JAN 2018 15:33:09

Middle Channel / 1RB



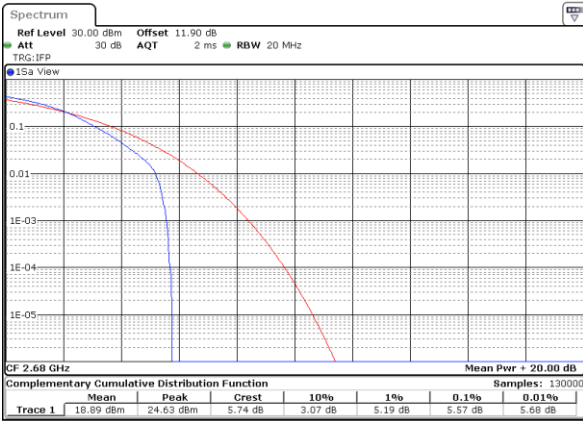
Date: 7 JAN 2018 15:33:23

Middle Channel / Full RB



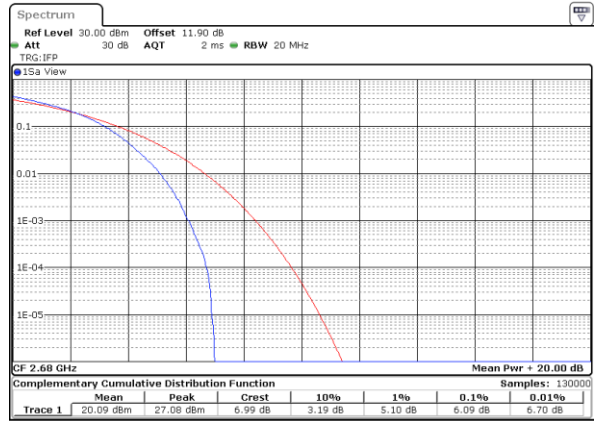
Date: 7 JAN 2018 15:33:38

Highest Channel / 1RB



Date: 7 JAN 2018 15:33:55

Highest Channel / Full RB



Date: 7 JAN 2018 15:34:08



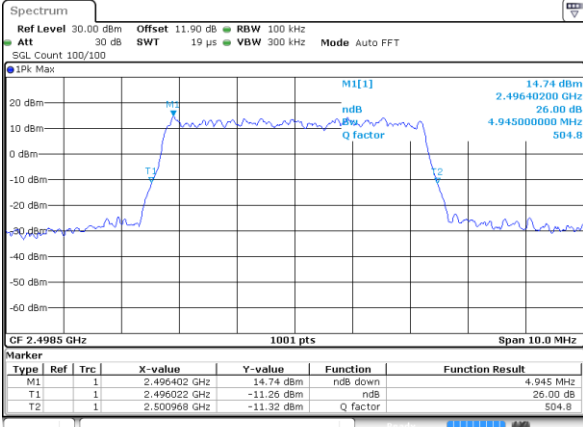
**26dB Bandwidth**

Mode	LTE Band 41 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.95	4.76	9.73	9.67	14.24	14.12	20.02	20.10
Middle CH	-	-	-	-	4.92	4.99	9.63	9.73	14.21	14.12	20.18	20.70
Highest CH	-	-	-	-	5.00	4.95	9.71	9.61	14.30	14.21	22.14	20.10



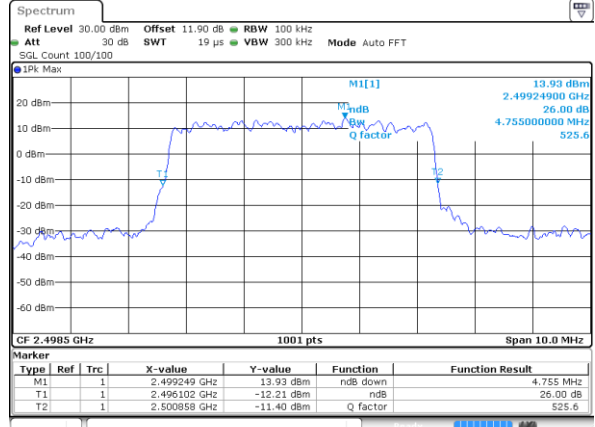
LTE Band 41

Lowest Channel / 5MHz / QPSK



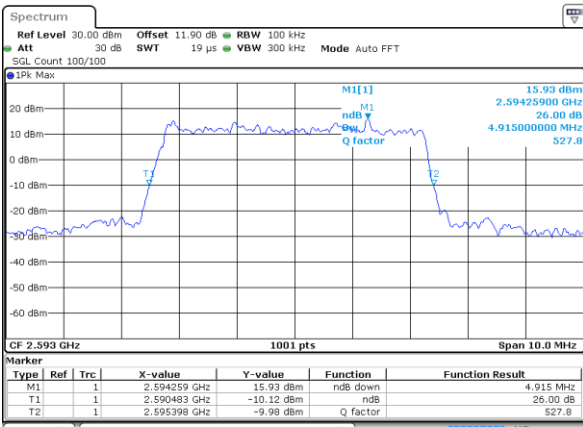
Date: 7 JAN 2018 15:24:04

Lowest Channel / 5MHz / 16QAM



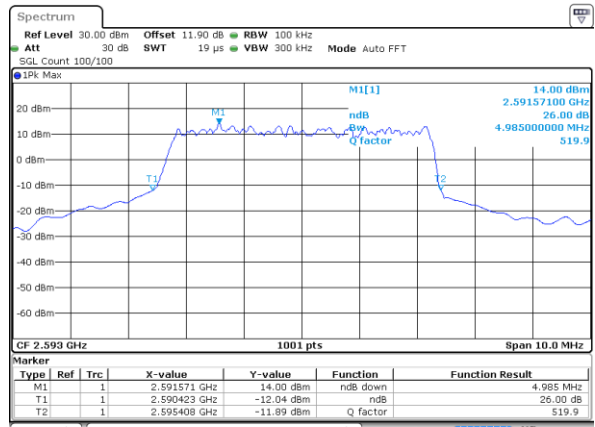
Date: 7 JAN 2018 15:24:14

Middle Channel / 5MHz / QPSK



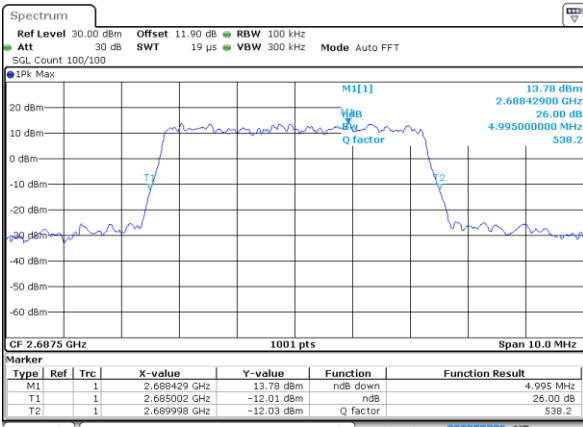
Date: 7 JAN 2018 15:24:44

Middle Channel / 5MHz / 16QAM



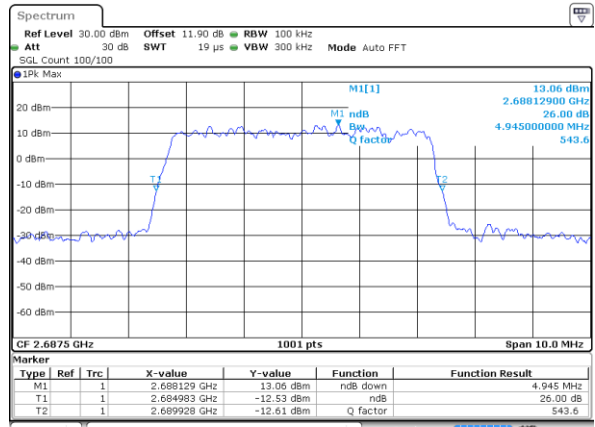
Date: 7 JAN 2018 15:24:54

Highest Channel / 5MHz / QPSK



Date: 7 JAN 2018 15:25:24

Highest Channel / 5MHz / 16QAM



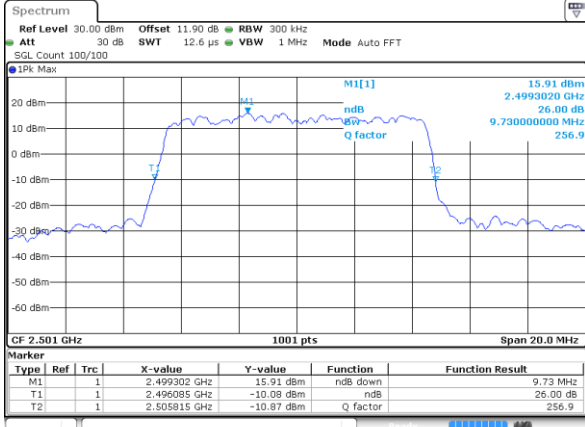
Date: 7 JAN 2018 15:25:34





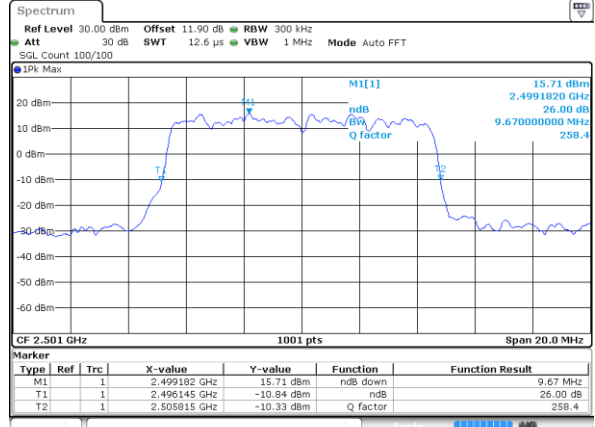
LTE Band 41

Lowest Channel / 10MHz / QPSK



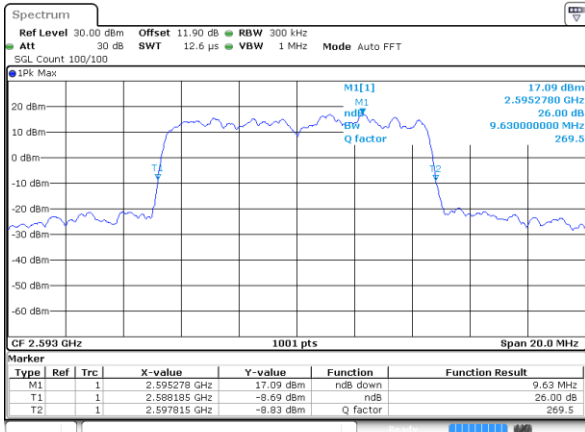
Date: 7 JAN 2018 15:26:04

Lowest Channel / 10MHz / 16QAM



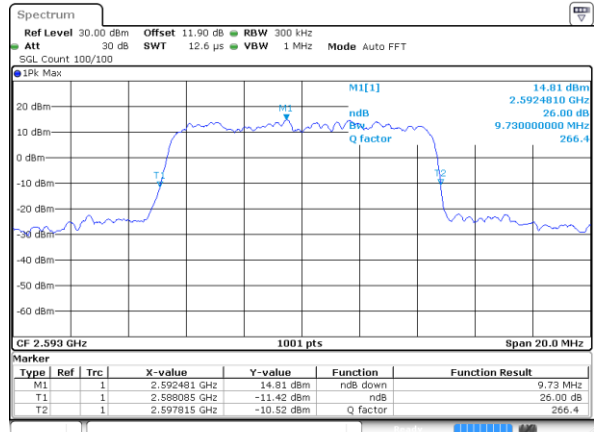
Date: 7 JAN 2018 15:26:14

Middle Channel / 10MHz / QPSK



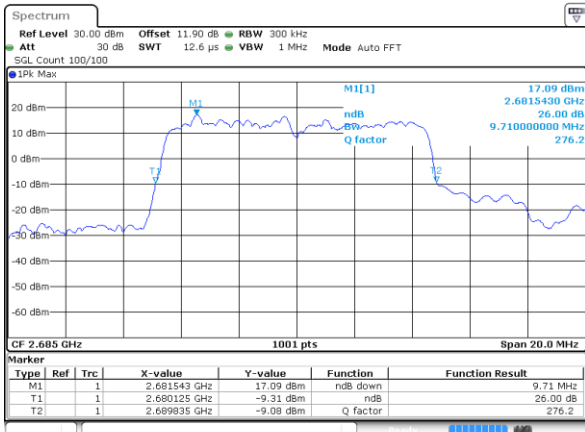
Date: 7 JAN 2018 15:26:44

Middle Channel / 10MHz / 16QAM



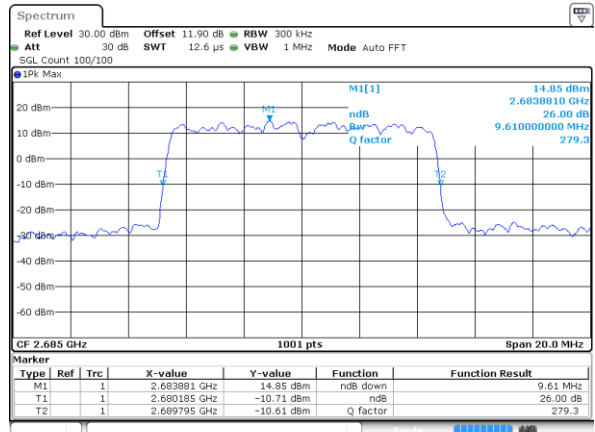
Date: 7 JAN 2018 15:26:54

Highest Channel / 10MHz / QPSK



Date: 7 JAN 2018 15:27:24

Highest Channel / 10MHz / 16QAM

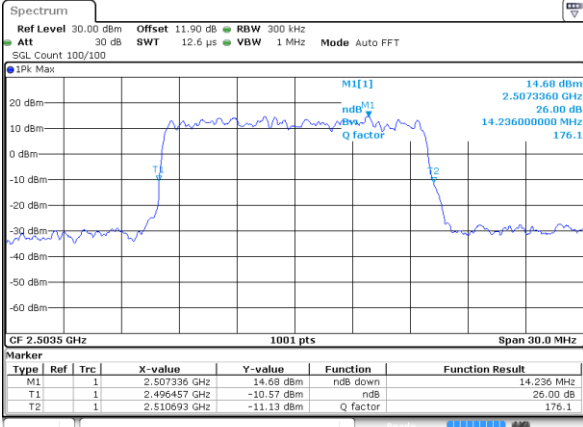


Date: 7 JAN 2018 15:27:34



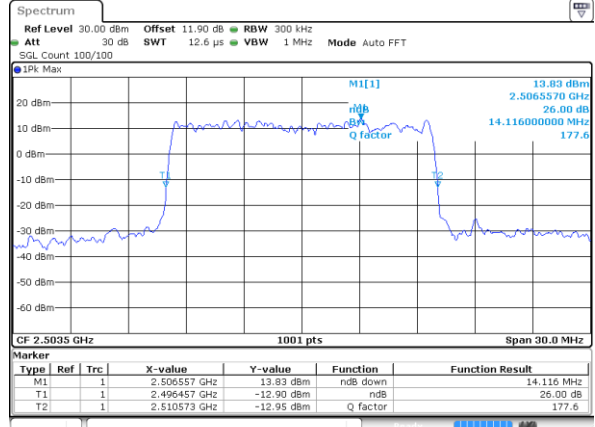
LTE Band 41

Lowest Channel / 15MHz / QPSK



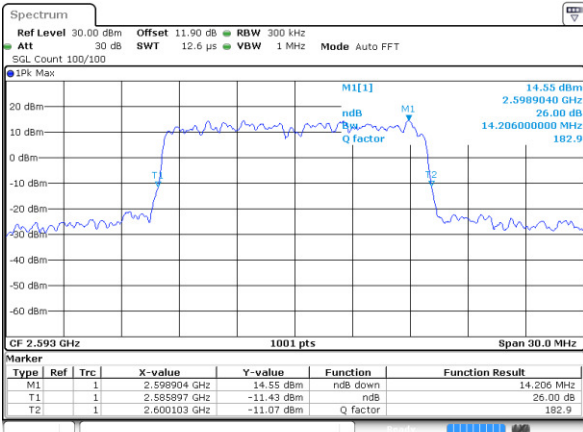
Date: 7 JAN 2018 15:28:04

Lowest Channel / 15MHz / 16QAM



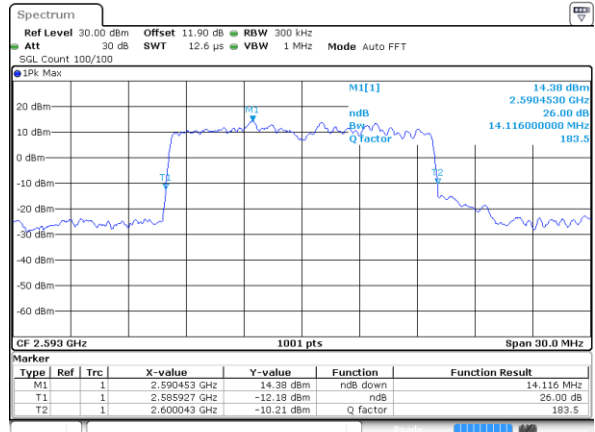
Date: 7 JAN 2018 15:28:14

Middle Channel / 15MHz / QPSK



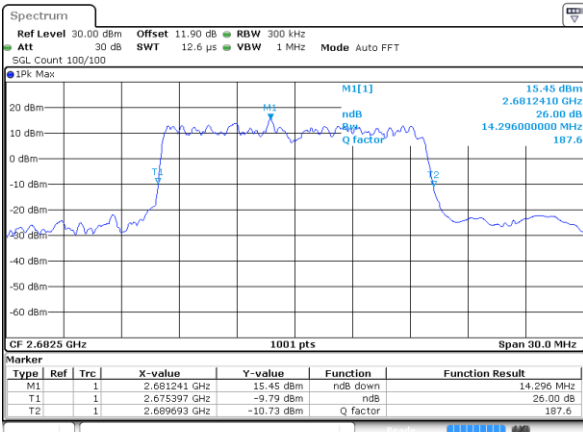
Date: 7 JAN 2018 15:28:44

Middle Channel / 15MHz / 16QAM



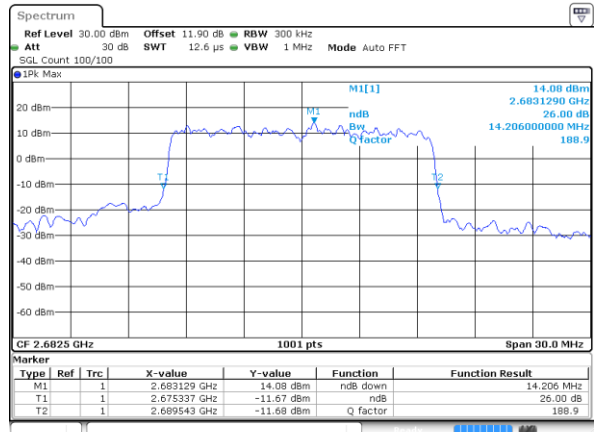
Date: 7 JAN 2018 15:28:54

Highest Channel / 15MHz / QPSK



Date: 7 JAN 2018 15:29:24

Highest Channel / 15MHz / 16QAM

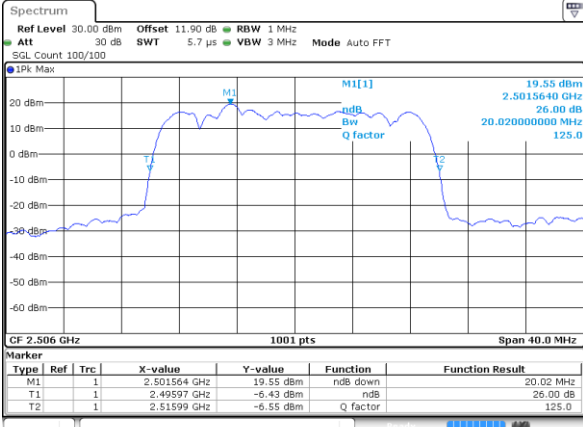


Date: 7 JAN 2018 15:29:34



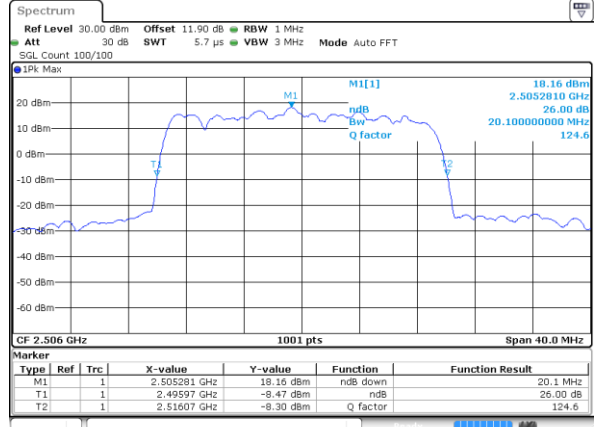
LTE Band 41

Lowest Channel / 20MHz / QPSK



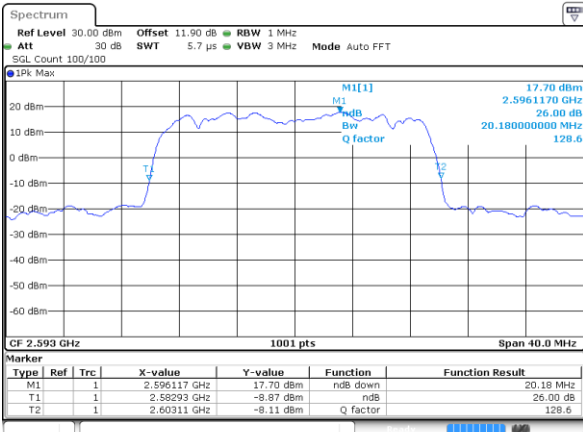
Date: 7 JAN 2018 15:30:04

Lowest Channel / 20MHz / 16QAM



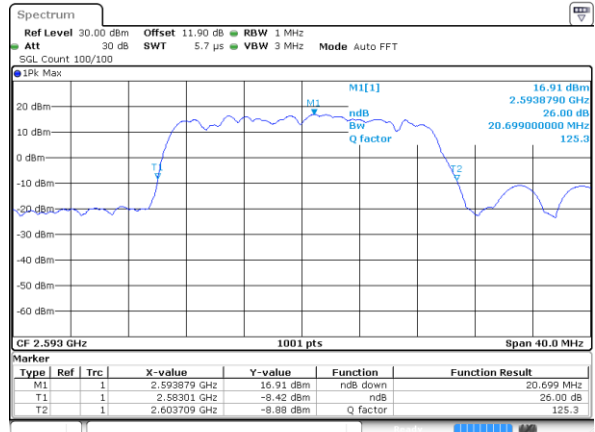
Date: 7 JAN 2018 15:30:14

Middle Channel / 20MHz / QPSK



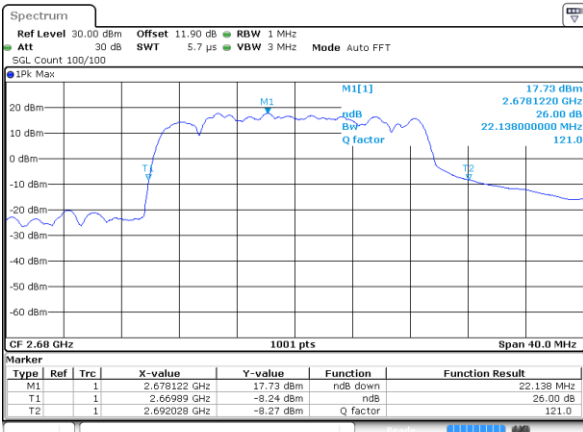
Date: 7 JAN 2018 15:30:44

Middle Channel / 20MHz / 16QAM



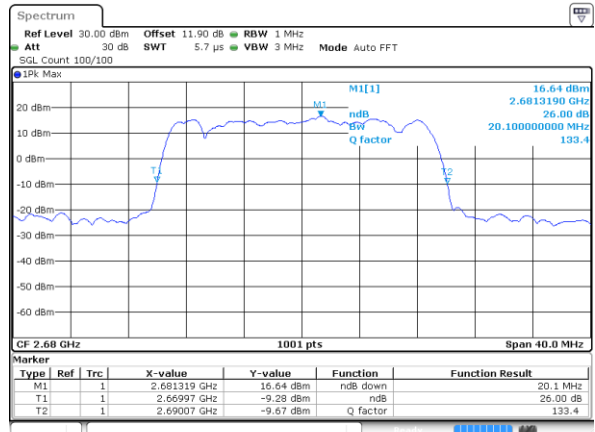
Date: 7 JAN 2018 15:30:54

Highest Channel / 20MHz / QPSK



Date: 7 JAN 2018 15:31:24

Highest Channel / 20MHz / 16QAM



Date: 7 JAN 2018 15:31:34



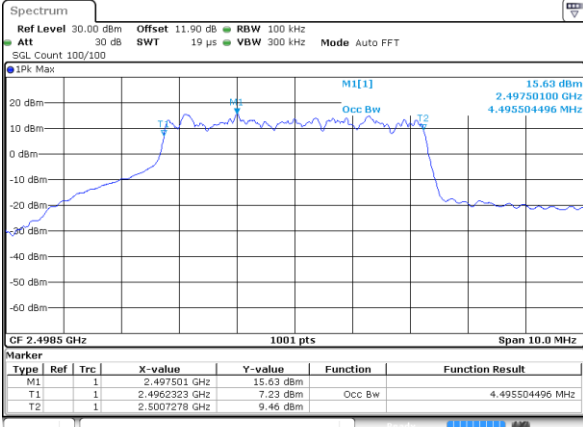
### Occupied Bandwidth

Mode	LTE Band 41 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.5	4.46	8.99	8.97	13.46	13.4	18.18	18.18
Middle CH	-	-	-	-	4.48	4.5	8.95	8.95	13.46	13.46	18.46	18.3
Highest CH	-	-	-	-	4.47	4.48	9.05	9.01	13.43	13.46	18.26	18.22



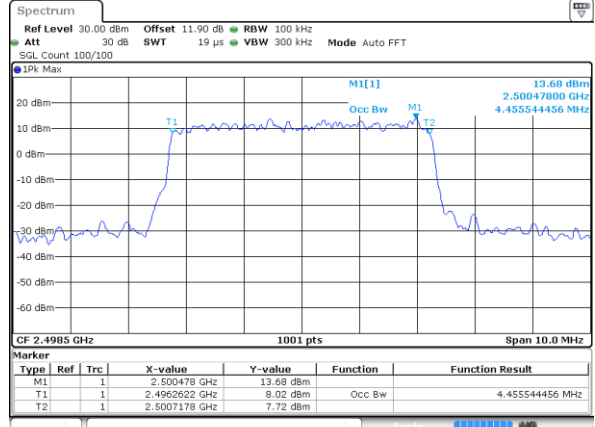
LTE Band 41

Lowest Channel / 5MHz / QPSK



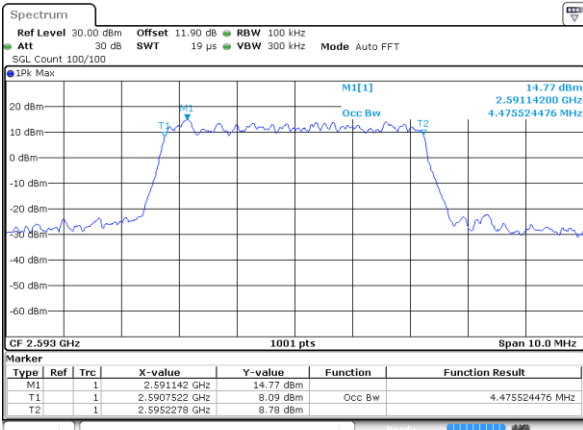
Date: 7 JAN 2018 15:23:44

Lowest Channel / 5MHz / 16QAM



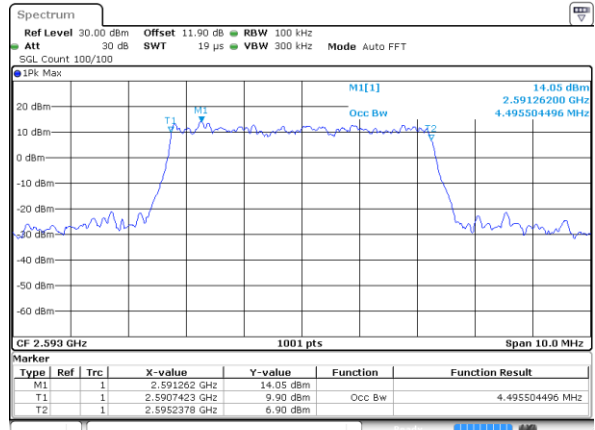
Date: 7 JAN 2018 15:23:54

Middle Channel / 5MHz / QPSK



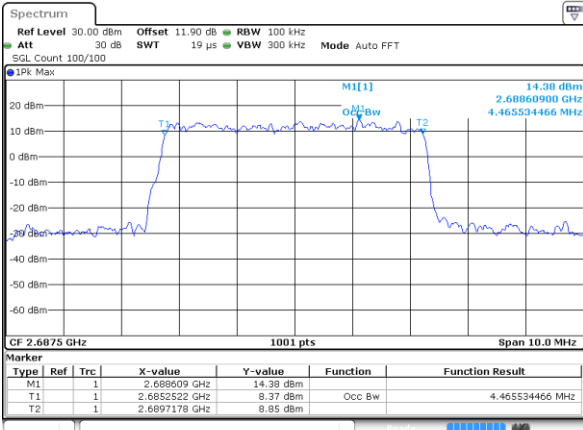
Date: 7 JAN 2018 15:24:24

Middle Channel / 5MHz / 16QAM



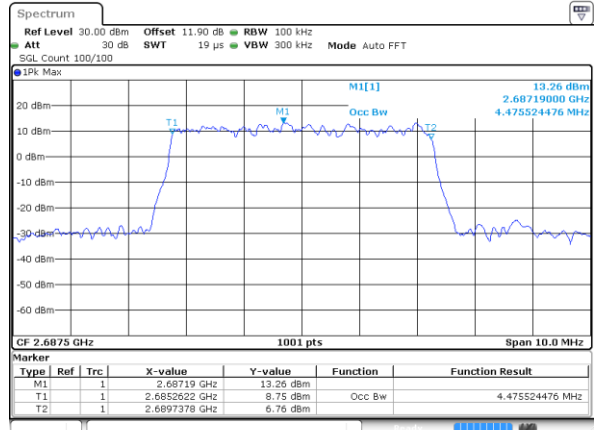
Date: 7 JAN 2018 15:24:34

Highest Channel / 5MHz / QPSK



Date: 7 JAN 2018 15:25:04

Highest Channel / 5MHz / 16QAM

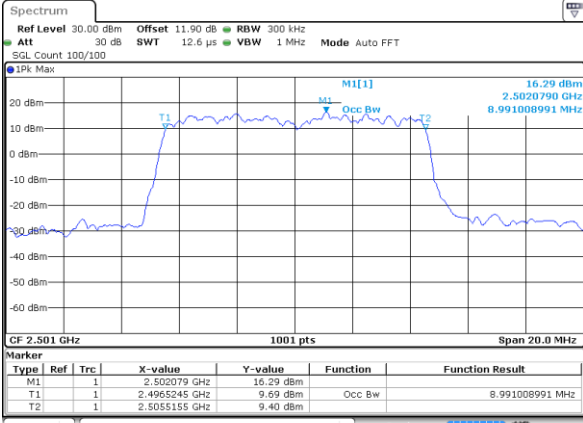


Date: 7 JAN 2018 15:25:14



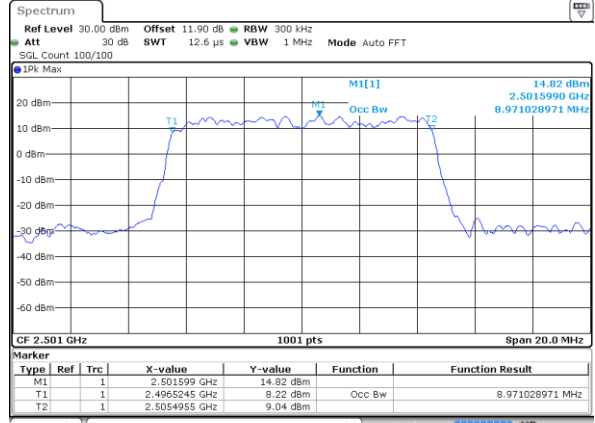
LTE Band 41

Lowest Channel / 10MHz / QPSK



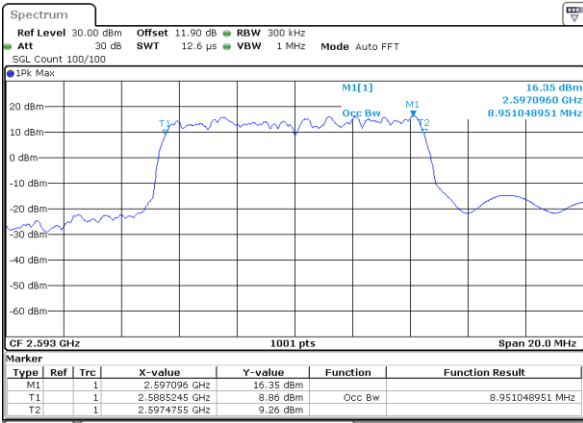
Date: 7 JAN 2018 15:25:44

Lowest Channel / 10MHz / 16QAM



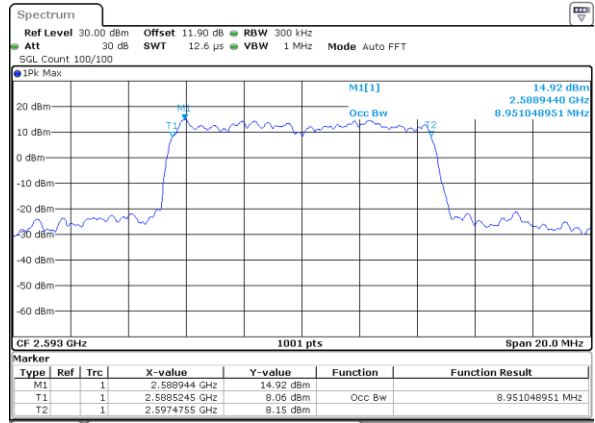
Date: 7 JAN 2018 15:25:54

Middle Channel / 10MHz / QPSK



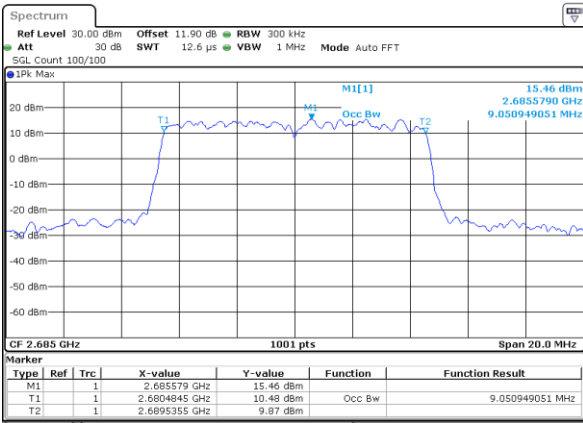
Date: 7 JAN 2018 15:26:24

Middle Channel / 10MHz / 16QAM



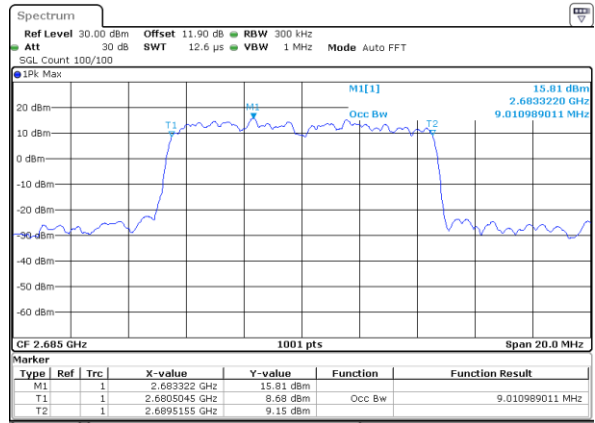
Date: 7 JAN 2018 15:26:34

Highest Channel / 10MHz / QPSK



Date: 7 JAN 2018 15:27:04

Highest Channel / 10MHz / 16QAM

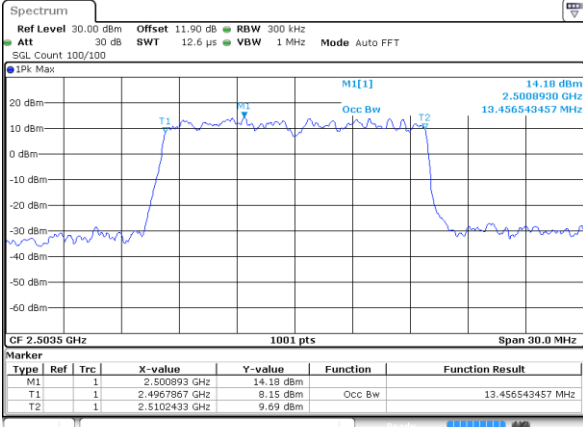


Date: 7 JAN 2018 15:27:14



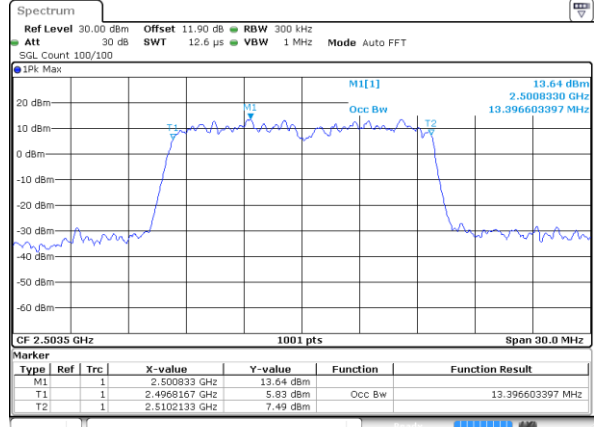
LTE Band 41

Lowest Channel / 15MHz / QPSK



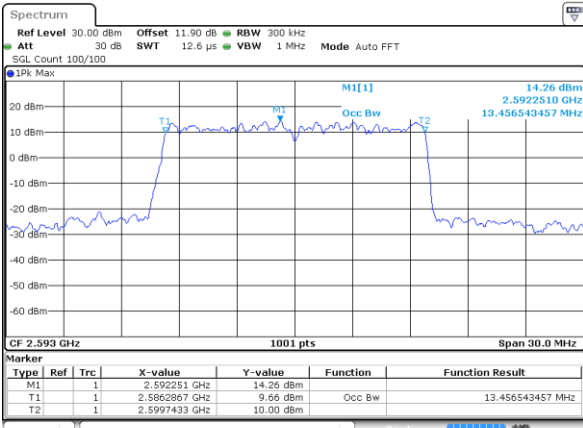
Date: 7 JAN 2018 15:27:44

Lowest Channel / 15MHz / 16QAM



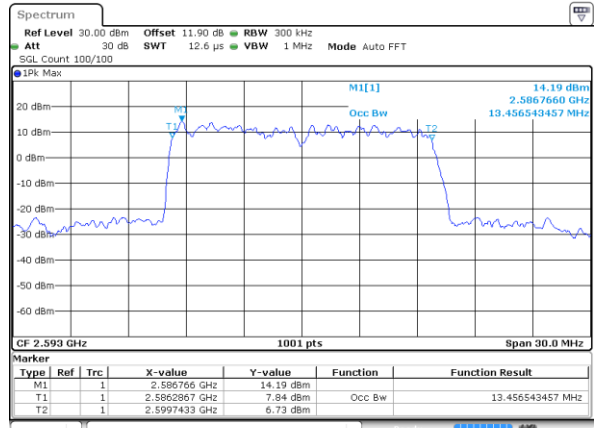
Date: 7 JAN 2018 15:27:54

Middle Channel / 15MHz / QPSK



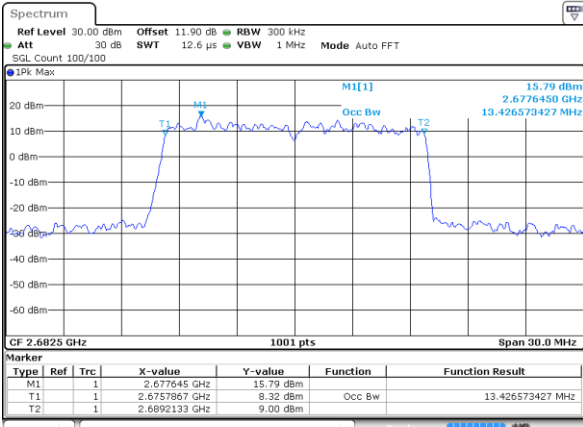
Date: 7 JAN 2018 15:28:24

Middle Channel / 15MHz / 16QAM



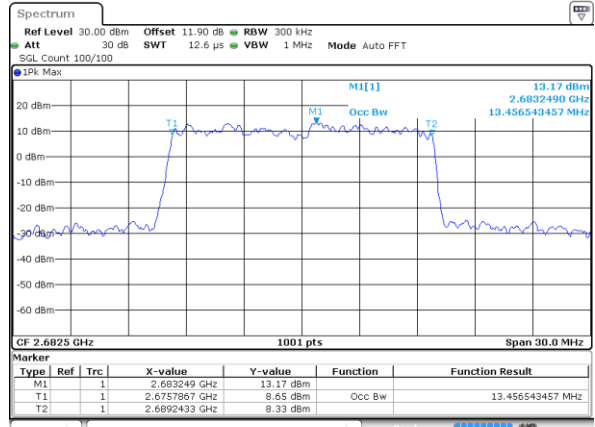
Date: 7 JAN 2018 15:28:34

Highest Channel / 15MHz / QPSK



Date: 7 JAN 2018 15:29:04

Highest Channel / 15MHz / 16QAM

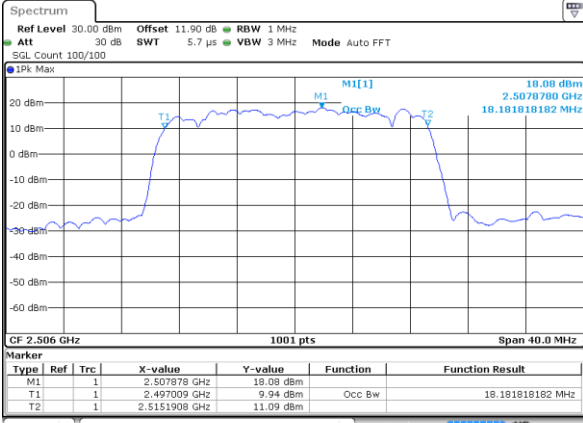


Date: 7 JAN 2018 15:29:14



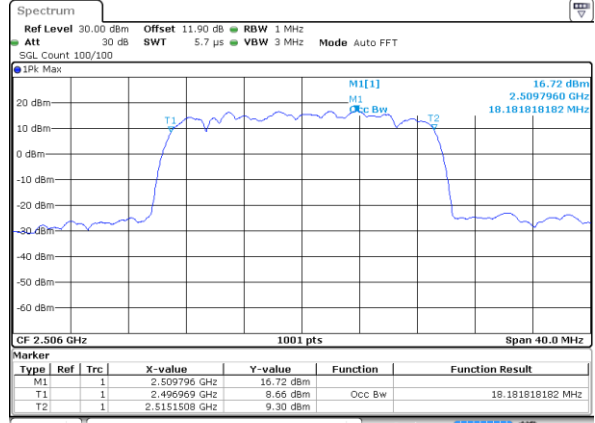
LTE Band 41

Lowest Channel / 20MHz / QPSK



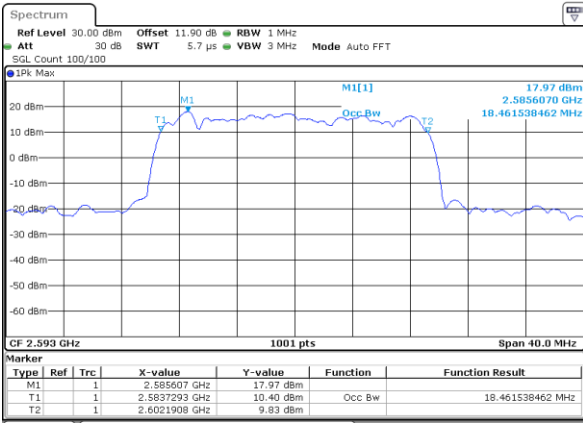
Date: 7 JAN 2018 15:29:44

Lowest Channel / 20MHz / 16QAM



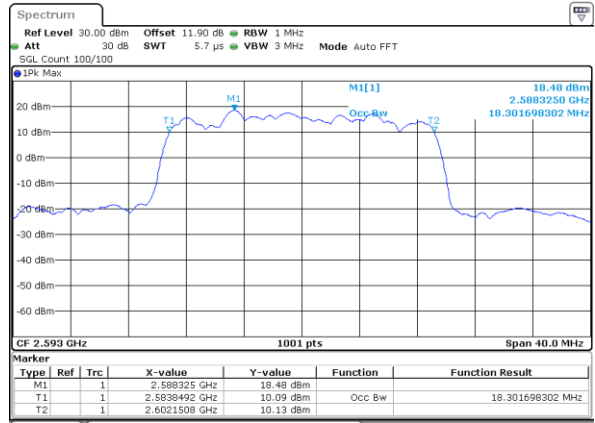
Date: 7 JAN 2018 15:29:54

Middle Channel / 20MHz / QPSK



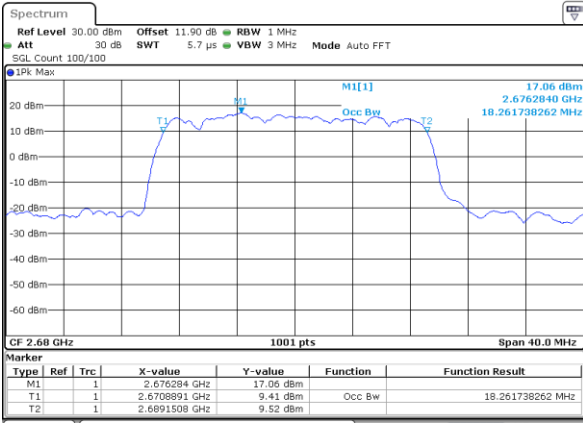
Date: 7 JAN 2018 15:30:24

Middle Channel / 20MHz / 16QAM



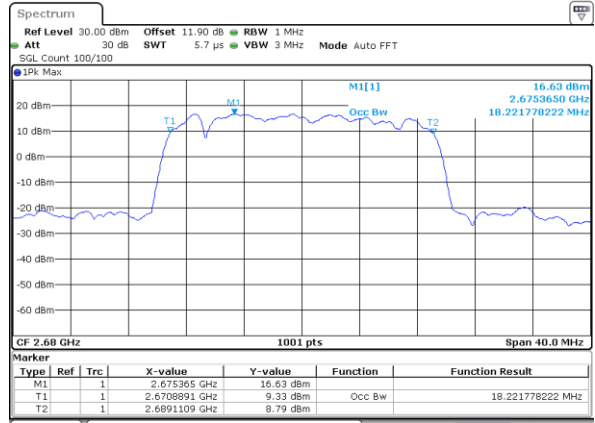
Date: 7 JAN 2018 15:30:34

Highest Channel / 20MHz / QPSK



Date: 7 JAN 2018 15:31:04

Highest Channel / 20MHz / 16QAM



Date: 7 JAN 2018 15:31:14





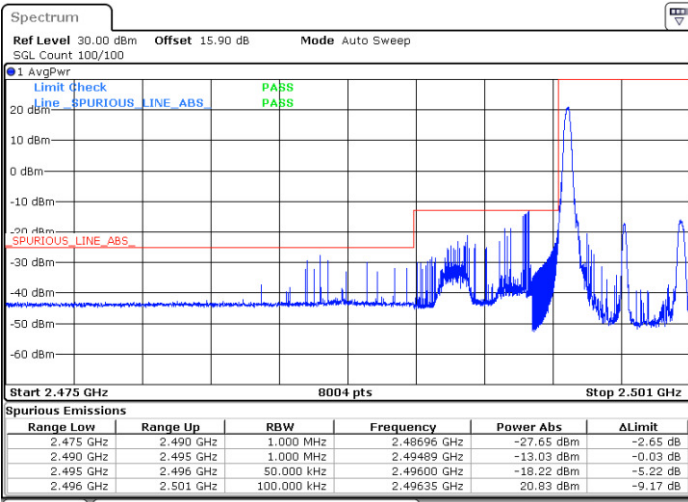
**Conducted Band Edge**



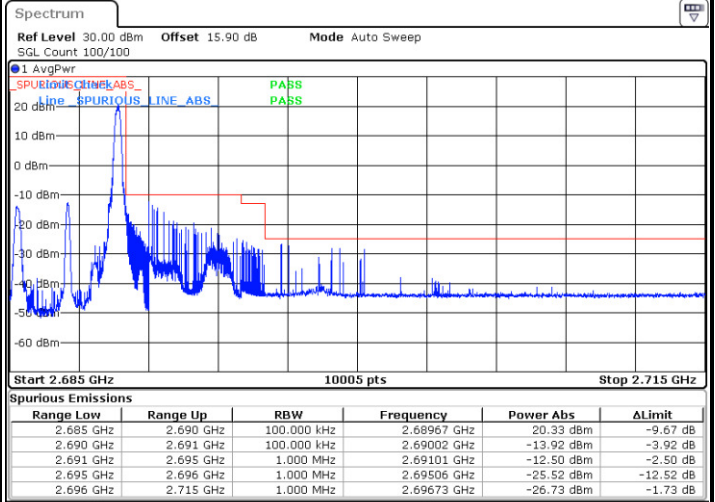
LTE Band 41 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



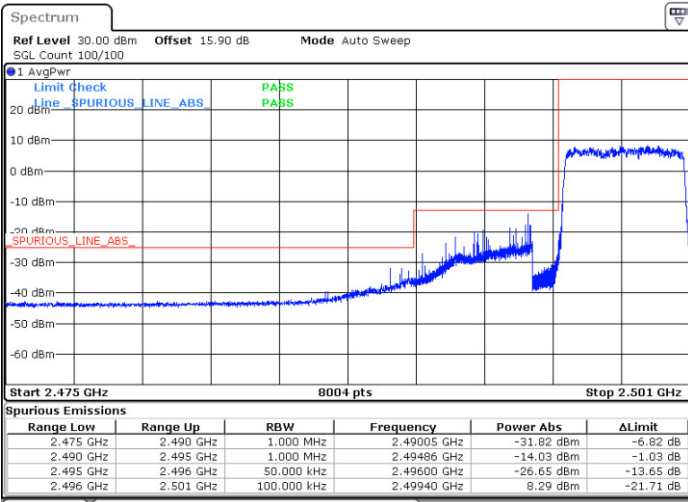
Date: 7. JAN 2018 15:22:46



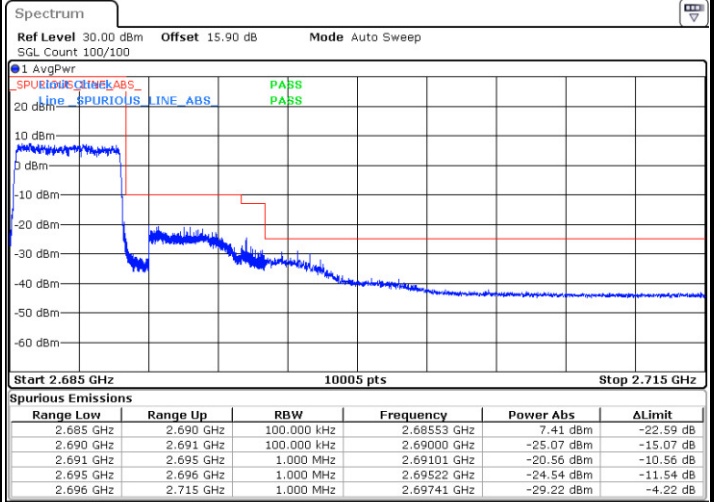
Date: 7. JAN 2018 14:18:46

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 7. JAN 2018 14:16:28

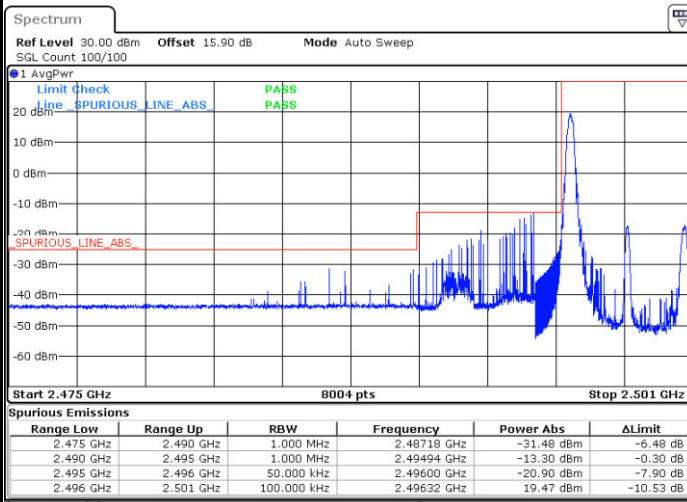


Date: 7. JAN 2018 14:21:04



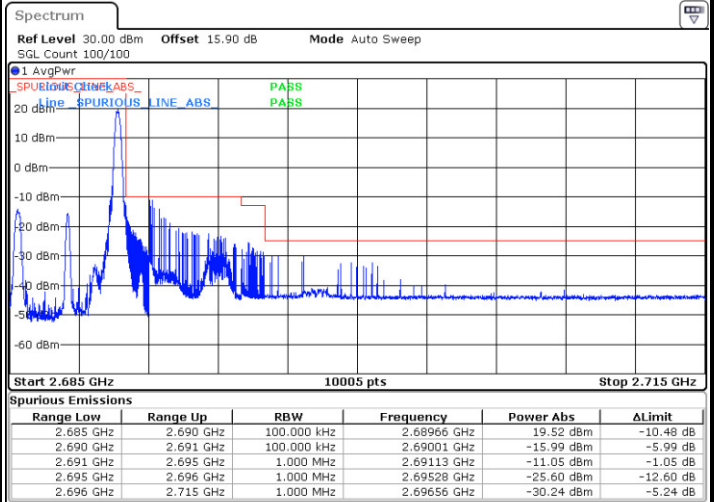
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



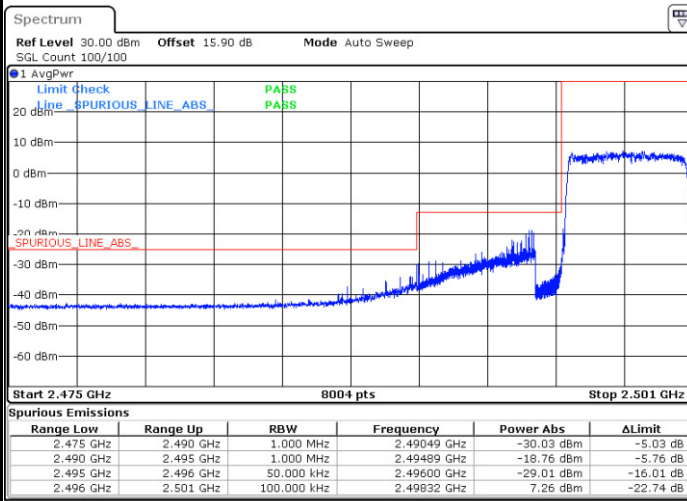
Date: 7. JAN 2018 14:15:19

Highest Band Edge / 1 RB



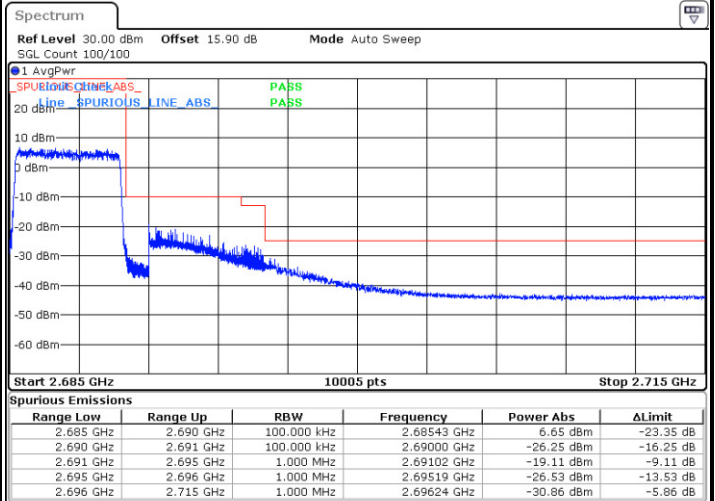
Date: 7. JAN 2018 14:19:55

Lowest Band Edge / Full RB



Date: 7. JAN 2018 14:17:38

Highest Band Edge / Full RB

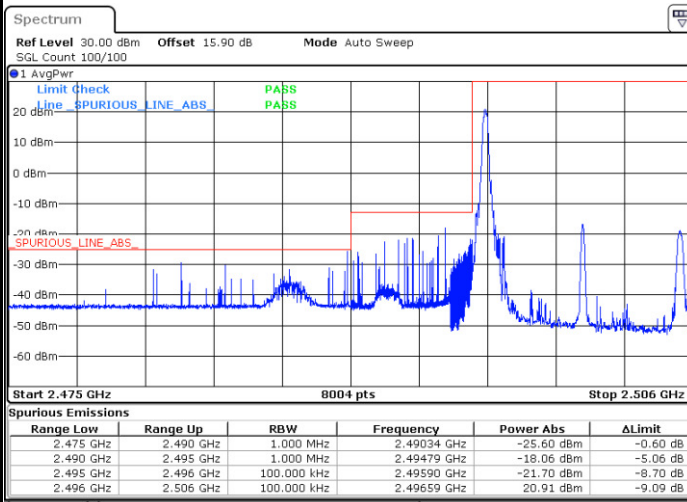


Date: 7. JAN 2018 14:22:13



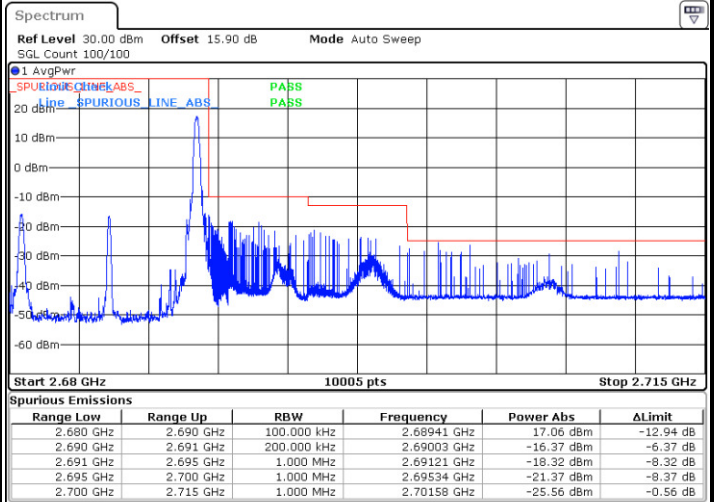
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB



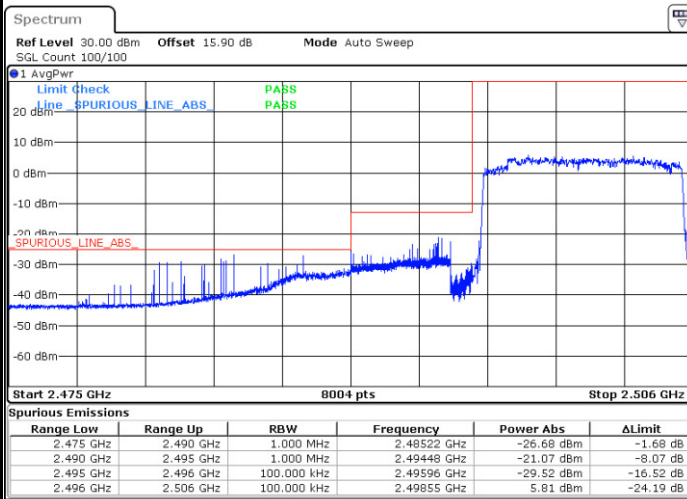
Date: 7. JAN 2018 15:45:40

Highest Band Edge / 1 RB



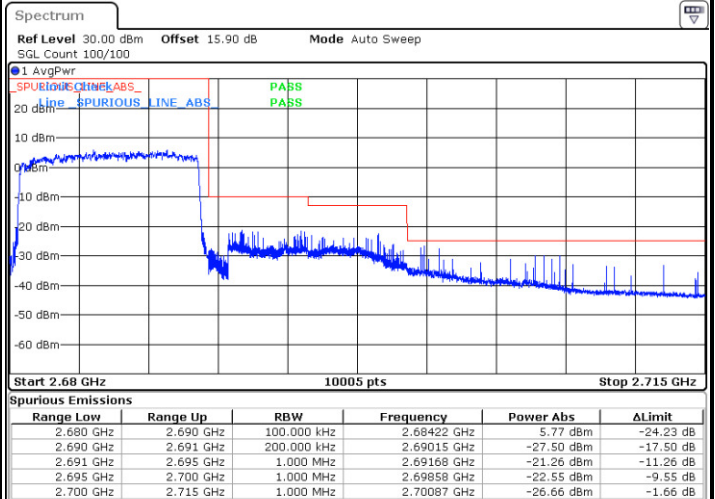
Date: 7. JAN 2018 15:48:53

Lowest Band Edge / Full RB



Date: 7. JAN 2018 15:50:23

Highest Band Edge / Full RB

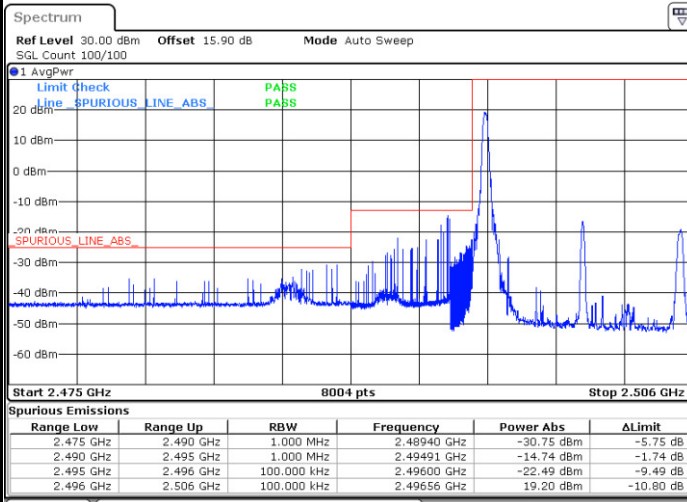


Date: 7. JAN 2018 15:49:16



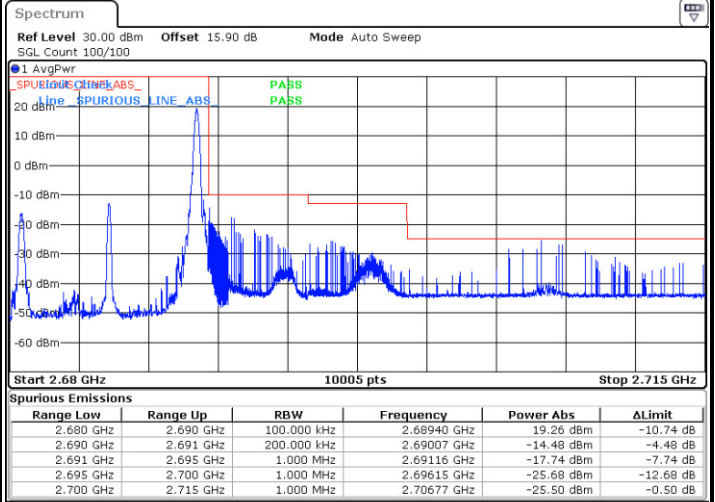
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



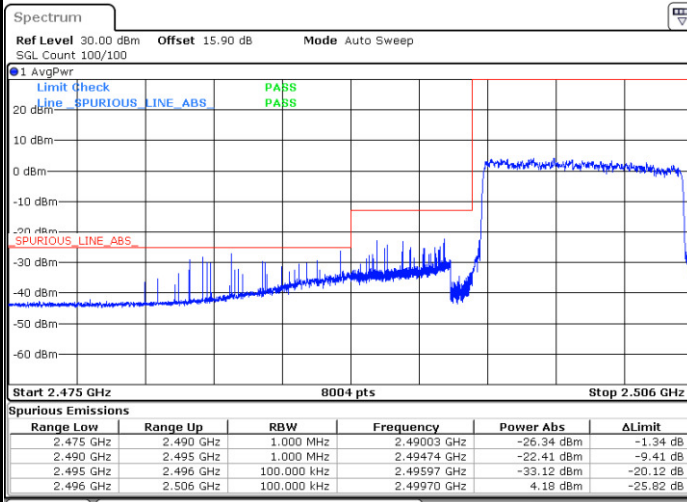
Date: 7. JAN 2018 14:24:32

Highest Band Edge / 1 RB



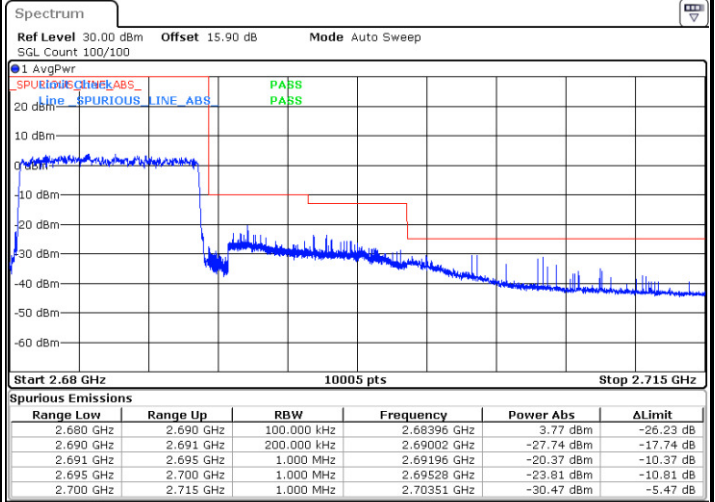
Date: 7. JAN 2018 14:29:08

Lowest Band Edge / Full RB



Date: 7. JAN 2018 14:26:50

Highest Band Edge / Full RB

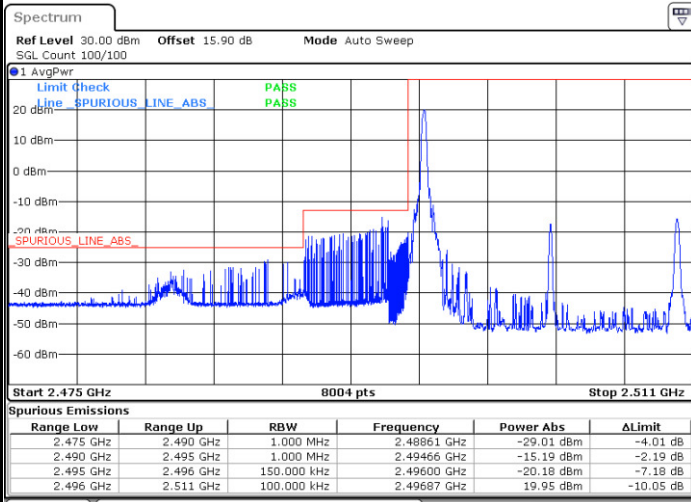


Date: 7. JAN 2018 15:49:35



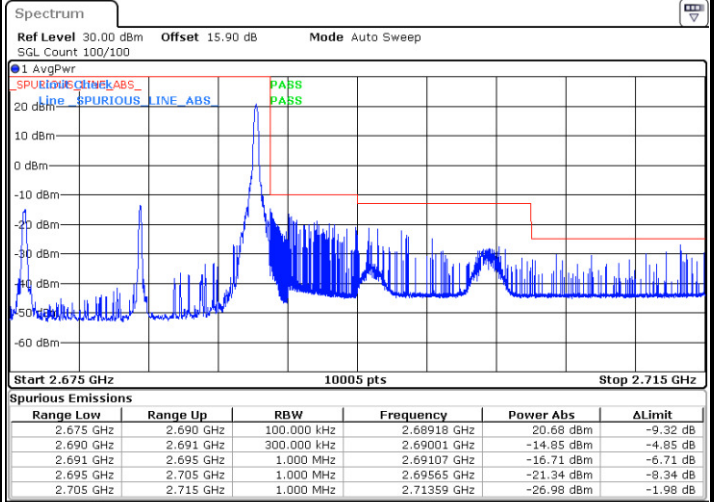
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / 1 RB



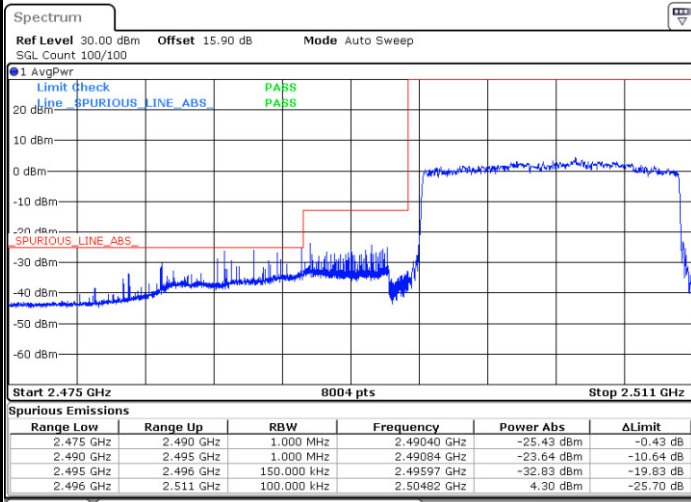
Date: 7. JAN 2018 14:32:35

Highest Band Edge / 1 RB



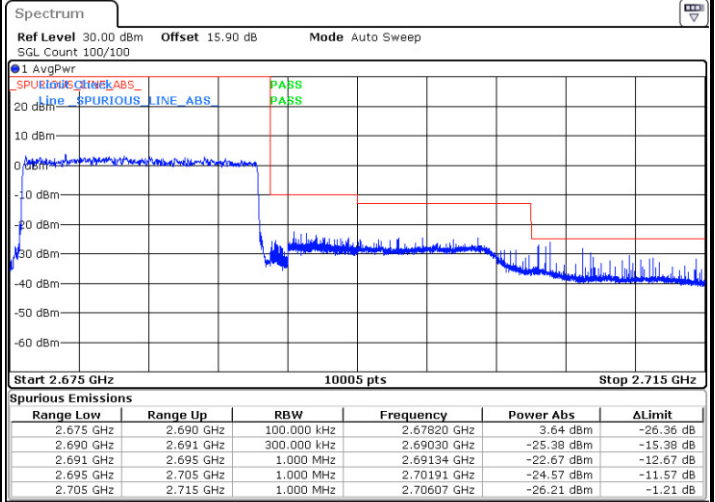
Date: 7. JAN 2018 14:37:12

Lowest Band Edge / Full RB



Date: 7. JAN 2018 14:34:54

Highest Band Edge / Full RB

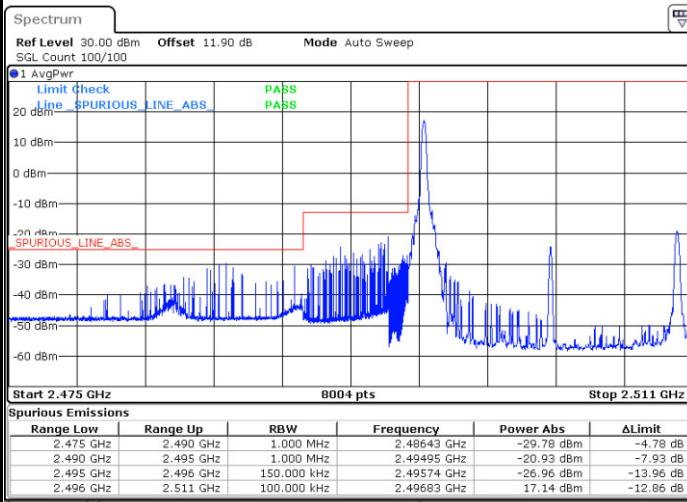


Date: 7. JAN 2018 14:39:30



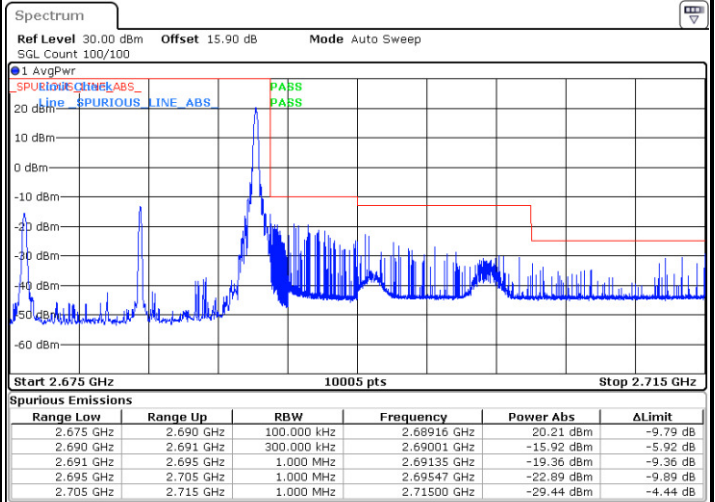
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



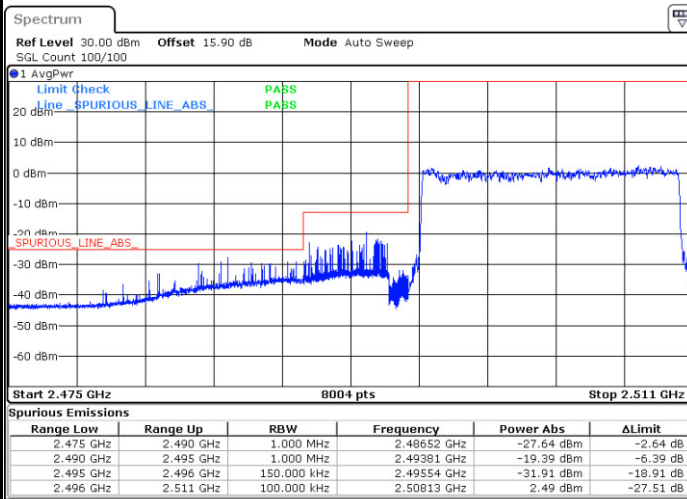
Date: 7. JAN 2018 15:38:38

Highest Band Edge / 1 RB



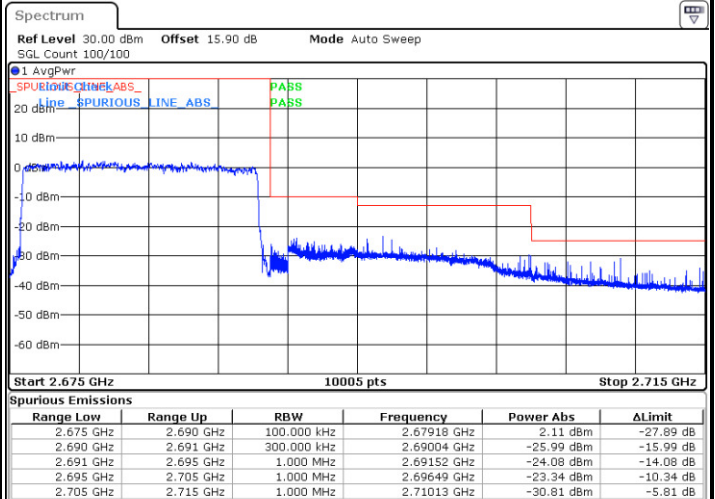
Date: 7. JAN 2018 14:38:21

Lowest Band Edge / Full RB



Date: 7. JAN 2018 14:36:03

Highest Band Edge / Full RB

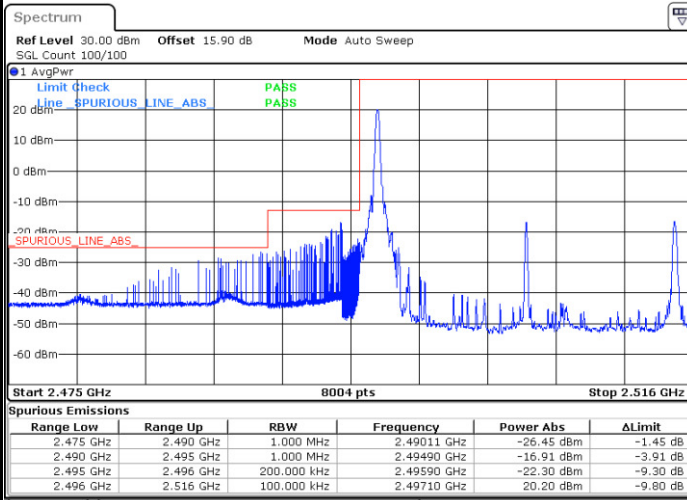


Date: 7. JAN 2018 14:40:39



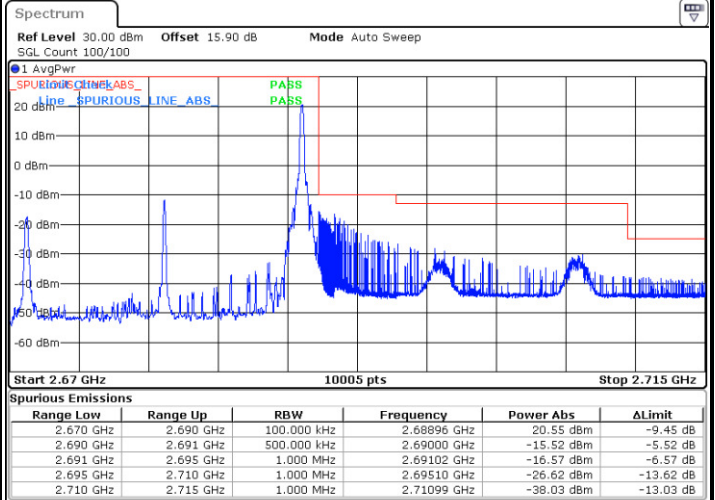
LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / 1 RB



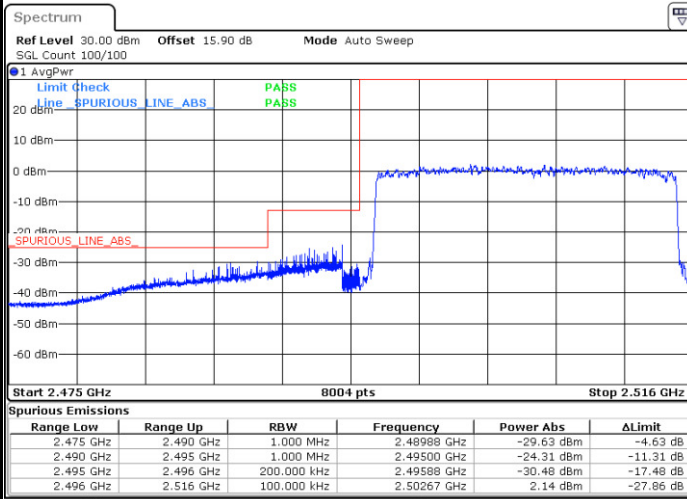
Date: 7. JAN 2018 14:41:48

Highest Band Edge / 1 RB



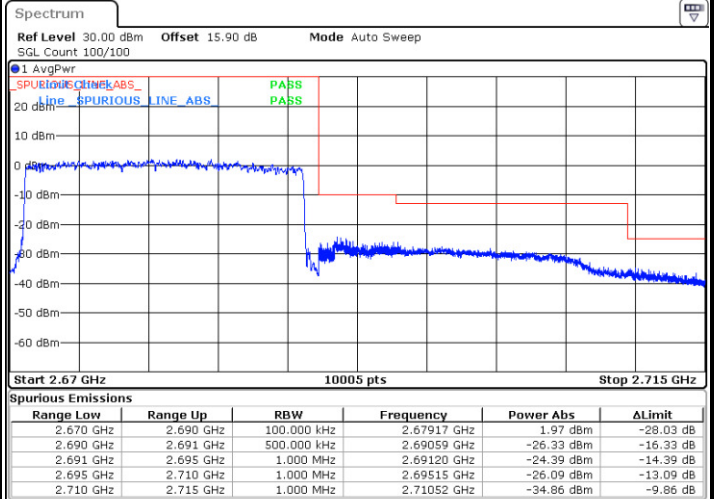
Date: 7. JAN 2018 14:46:25

Lowest Band Edge / Full RB



Date: 7. JAN 2018 14:44:07

Highest Band Edge / Full RB



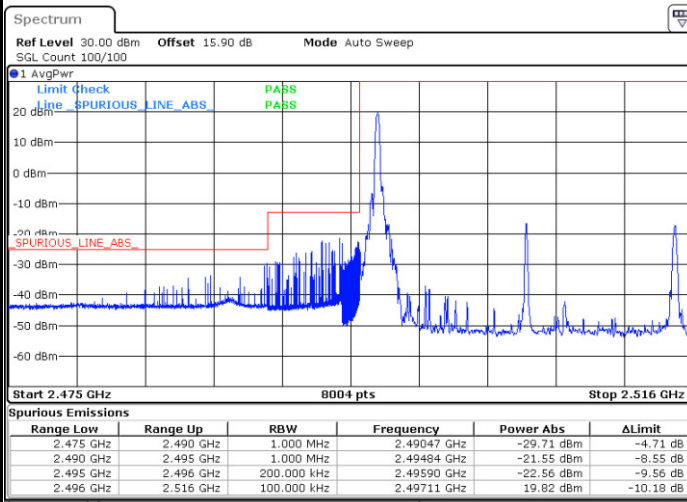
Date: 7. JAN 2018 14:49:52





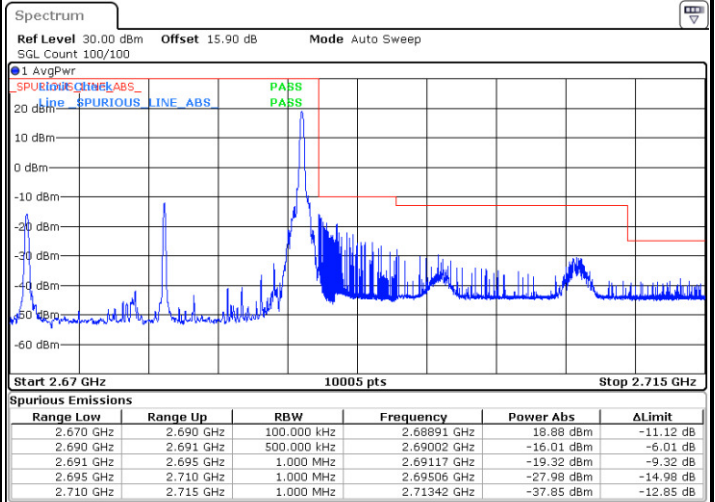
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



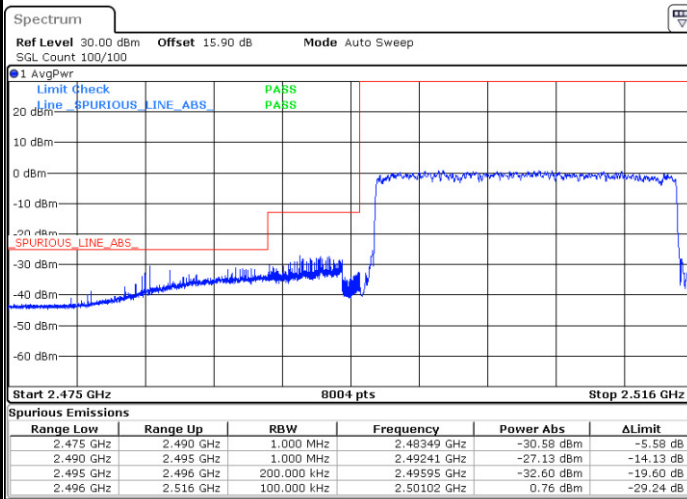
Date: 7. JAN 2018 14:42:58

Highest Band Edge / 1 RB



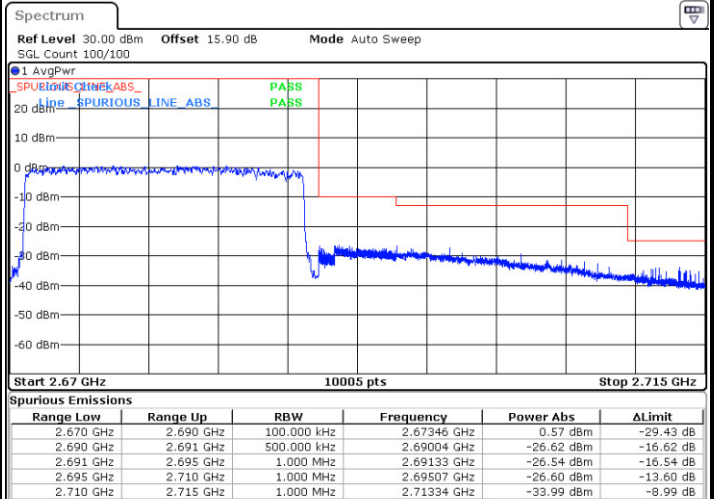
Date: 7. JAN 2018 14:47:34

Lowest Band Edge / Full RB



Date: 7. JAN 2018 14:45:16

Highest Band Edge / Full RB



Date: 7. JAN 2018 14:48:43



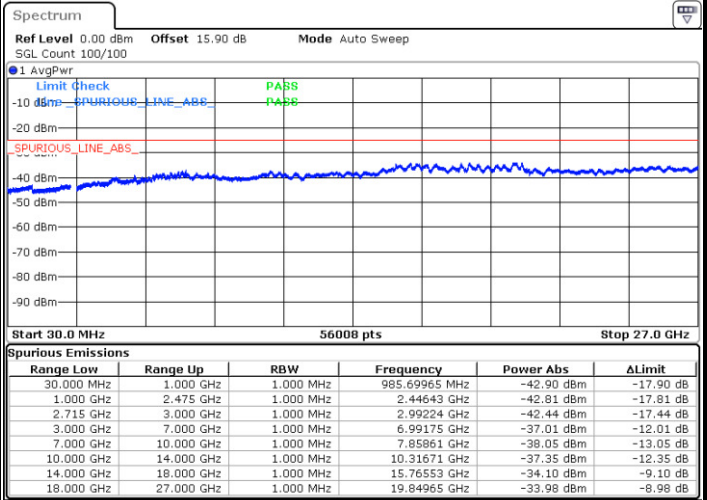
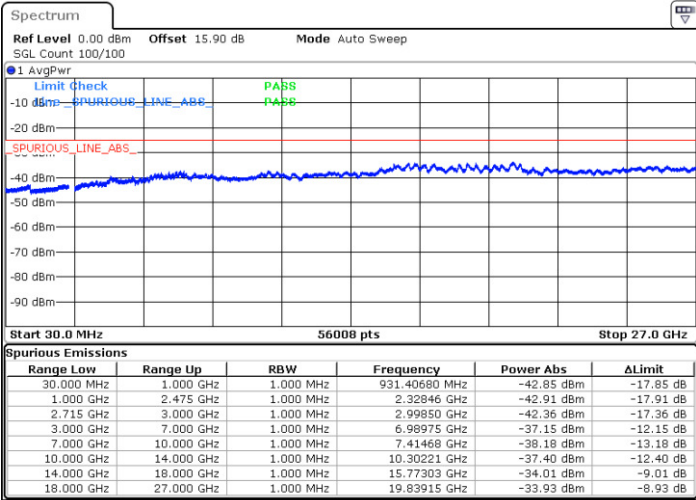
**Conducted Spurious Emission**



LTE Band 41 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

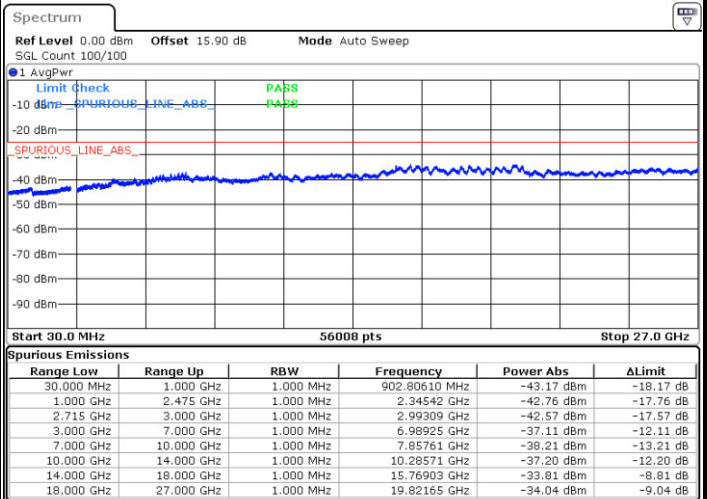
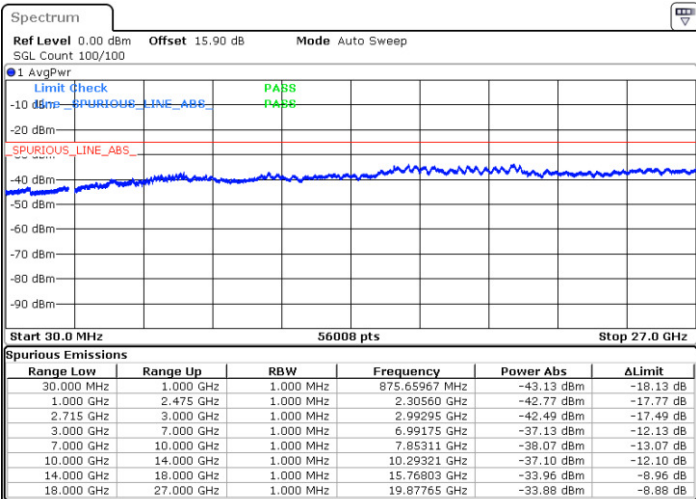


Date: 7.JAN 2018 14:50:46

Date: 7.JAN 2018 14:51:40

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 7.JAN 2018 14:52:34

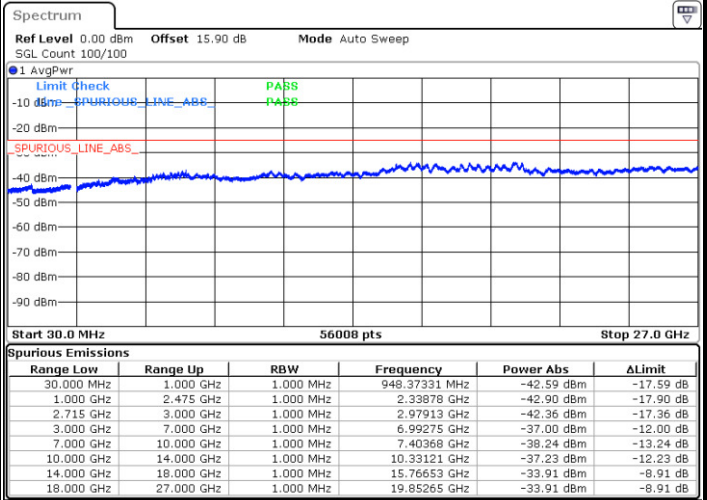
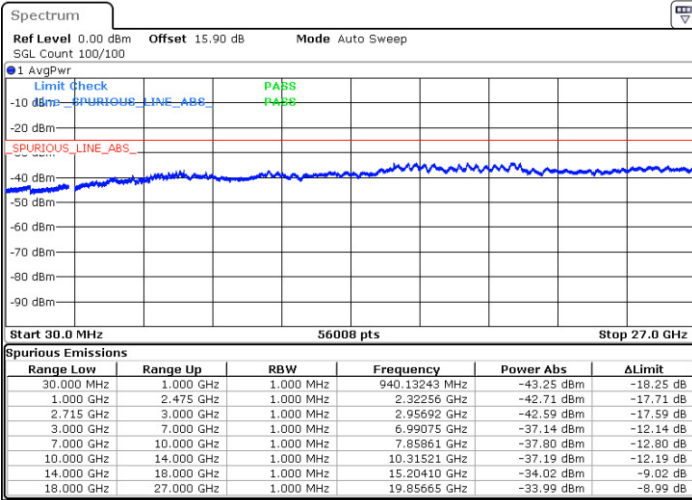
Date: 7.JAN 2018 14:53:28



LTE Band 41 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



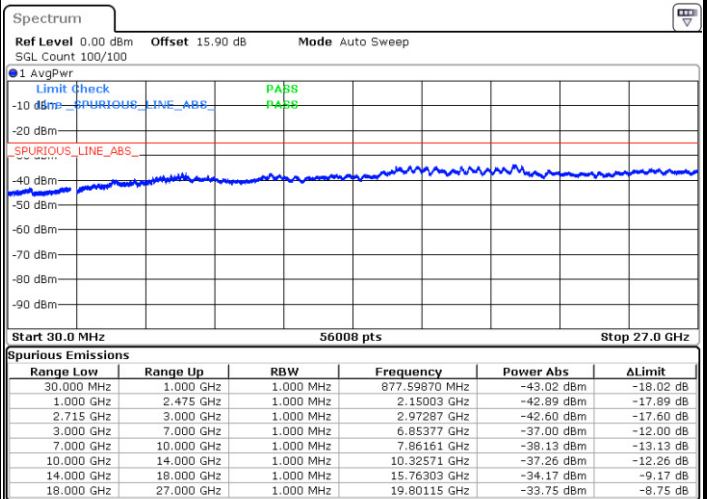
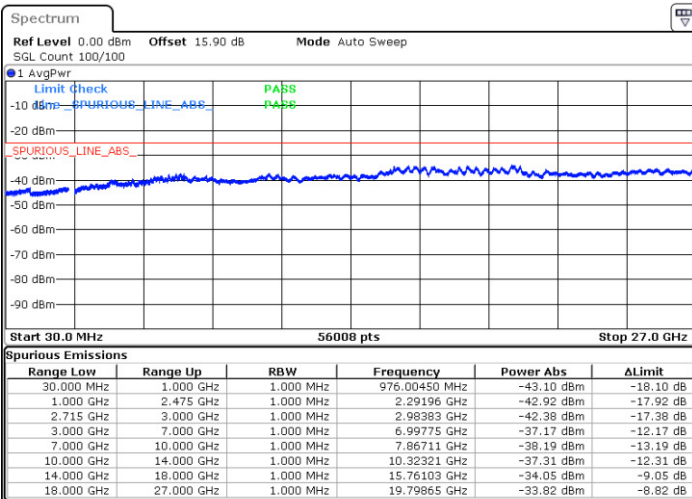
Date: 7.JAN.2018 14:54:22

Date: 7.JAN.2018 14:55:16

LTE Band 41 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 7.JAN.2018 14:56:11

Date: 7.JAN.2018 14:57:04